

20010822.qrp v02_n289.qrl.20010822

Date: Wed, 22 Aug 2001 19:03:08 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2289

QRP-L Digest 2289

Topics covered in this issue include:

- 1) [105396] Re:CUB FOX replacement notice!
by "Mike Malone" <mmalone@worldlogon.com>
- 2) [105397] Re: CUB FOX replacement notice!
by "George, W5YR" <w5yr@att.net>
- 3) [105398] TK8T # 89700 mw !!!!
by "George Osier" <gosier@twcny.rr.com>
- 4) [105399] Re: SSS Kits
by Dan Tayloe <dtayloe@home.com>
- 5) [105400] FS: Epiphyte 3 & RS 2M Amp
by Dan Reynolds <bcdlr@yahoo.com>
- 6) [105401] Ideas for the SSS counter kit
by jacksonharbor@att.net
- 7) [105402] Cub Fox Log for 8-15
by "elawson" <elawson@lawson-philpot.com>
- 8) [105403] Number for RS Phone Filter
by "Mike Duke" <k5xu@concentric.net>
- 9) [105404] New Products
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 10) [105405] Prelim Cub Fox Hunt Log for 7-25
by "elawson" <elawson@lawson-philpot.com>
- 11) [105406] N to BNC
by Elda & Doug Wilson <ewilson@nccn.net>
- 12) [105407] Re: OT --Calculators
by William R Colbert <w5xe@juno.com>
- 13) [105408] OT: Palm Logging Software
by "Mark A. Andrews" <KE4IOF@KE4IOF.com>
- 14) [105409] FOX: Got Mike....
by John Wagner <john@wagner-usa.net>
- 15) [105410] FOX Gads Scunk Time!
by "Karl F. Larsen" <k5di@zianet.com>
- 16) [105411] Re: FOX Gads Scunk Time!
by John Wagner <john@wagner-usa.net>
- 17) [105412] Fwd: [NoGaQRP] NOGA QRP CW Net for August 21, 2001
by "Michael C. Boatright" <ko4wx@mindspring.com>
- 18) [105413] Re: FOX Gads Scunk Time!
by John Wagner <john@wagner-usa.net>
- 19) [105414] Re: RBA-1 Balun

- by Bill Coleman <aa4lr@arrl.net>
- 20) [105415] Re: grid-leak bias
by W2SH@aol.com
- 21) [105416] RE: Slingshots
by W2SH@aol.com
- 22) [105417] FOX W0MC QSY Down to 14.054...
by "Jerry McCollom" <w0mc@club-pre.org>
- 23) [105418] N1TEV's Ultra Simple W1AW Receiver
by Ed Kessler <edkess@pa.net>
- 24) [105419] Fox- NW7DX invites YOU! Thursday night!
by BenNW7DX@aol.com
- 25) [105420] Re: FOX Gads Scunk Time!
by Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
- 26) [105421] Re: FOX Gads Scunk Time!
by "Mike Malone" <mmalone@worldlogon.com>
- 27) [105422] Re: Thanks for the fun Cub fox hunters!
by "Mike Malone" <mmalone@worldlogon.com>
- 28) [105423] W0MC CUB FOX Preliminary Log
by "Jerry McCollom" <w0mc@club-pre.org>
- 29) [105424] A bit OT -- picking a (rare) grid square?
by Frank Brickley <brickley@pobox.com>
- 30) [105425] Contest- K4FB Bubba Plans
by Paul Womble <pwomble1@tampabay.rr.com>
- 31) [105426] Cub Fox Hunts
by Pete Burbank <plburbank@kih.net>
- 32) [105427] Re: W0MC CUB FOX Preliminary Log
by Pete Burbank <plburbank@kih.net>
- 33) [105428] Re: grid-leak bias
by "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
- 34) [105429] Norcal 20 questions Redux part 2
by "Mike Morrell" <morrellm@ameritech.net>
- 35) [105430] Re: A bit OT -- picking a (rare) grid square?
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 36) [105431] Antenna HELP
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
- 37) [105432] For sale
by "Hartwell, Martin E, NLCIO" <mehartwell@att.com>
- 38) [105433] Antenna books, ARRL handbooks, Callbooks, etc. FS
by "Ken Simpson, W8EK" <W8EK@fdt.net>
- 39) [105434] Operating Handbook
by ARDUJENSKI@aol.com
- 40) [105435] Summits on the Air?
by "N7SG K7FD" <k7fd@hotmail.com>
- 41) [105436] Re: Norcal 20 questions Redux part 2
by Pete Burbank <plburbank@kih.net>
- 42) [105437] QRPp Summer Issue Up For Grabbs
by John R Kirby <n3aaz-qrp@juno.com>
- 43) [105438] Re: grid-leak bias

by "Karl F. Larsen" <k5di@zianet.com>
44) [105439] Re: Antenna HELP
by "Karl F. Larsen" <k5di@zianet.com>
45) [105440] re. NC-20 mods
by Pete Burbank <plburbank@kih.net>
46) [105441] Re: grid-leak bias
by "Tony Fishpool" <tonyg4wif.fsnet.co.uk>
47) [105442] Re: Got one - distance calculator
by "Ronald C. McConnell" <rcmcc@earthlink.net>
48) [105443] Re: grid-leak bias
by "Brad Hernlem" <alihernlem@hotmail.com>
49) [105444] RE: re. NC-20 mods (link for Larry East's mods)
by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
50) [105445] Re: re. NC-20 mods
by Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
51) [105446] A requellt for information.
by Bruce Muscolino <w6toy@erols.com>
52) [105447] SW Division ARRL Convention QRP Form
by "Phinizy, William" <wphinizy@filenet.com>
53) [105448] FOX: W8RU Hunt #16 Final Log
by Ron Majewski <majewski@erim-int.com>
54) [105449] UWB
by "Brad Hernlem" <alihernlem@hotmail.com>
55) [105450] MRX-40 Info?
by "Rob Matherly" <kc0bom@yahoo.com>
56) [105451] Iron on schematics
by "Rob Matherly" <kc0bom@yahoo.com>
57) [105452] RE: re. NC-20 mods (link for Larry East's mods)
by Pete Burbank <plburbank@kih.net>
58) [105453] Re: Operating Handbook
by William R Colbert <w5xe@juno.com>
59) [105454] Re: grid-leak bias
by "Mike Branca" <w3irz@att.net>
60) [105455] Re: Iron on schematics
by "Mike Yetsko" <myetsko@insydesw.com>
61) [105456] RE: Iron on schematics
by tf3vst@vortex.is (Villi Idunni)
62) [105457] Re: Iron on schematics
by "Leon Heller" <leon_heller@hotmail.com>
63) [105458] Re: MRX-40 Info?
by "Bob Tellefsen" <n6wg@earthlink.net>
64) [105459] 2N2/40 Book: Errors & corrections
by "Paul Harden, NA5N" <na5n@rt66.com>
65) [105460] Re: Iron on schematics
by "Rob Matherly" <kc0bom@yahoo.com>
66) [105461] TenTec Century 21 for sale
by "dave dabay" <kd3pc@mindspring.com>
67) [105462] tube pwr supply info needed

- by "kw3u@warwick.net" <kw3u@warwick.net>
- 68) [105463] Re: Resonant Antenna
by Bill Coleman <aa4lr@arrl.net>
- 69) [105464] Re: Resonant vs. Nonresonant Antenna
by Bill Coleman <aa4lr@arrl.net>
- 70) [105465] Operating Manual
by Kenneth Hoglund <hoglund@wfu.edu>
- 71) [105466] Re: Resonant vs. Nonresonant Antenna
by Bill Coleman <aa4lr@arrl.net>
- 72) [105467] Re: tube pwr supply info needed
by "Mike WA8BXN" <hubby2k@hotmail.com>
- 73) [105468] Re: Iron on schematics
by "Mike Yetsko" <myetsko@insydesw.com>
- 74) [105469] Re: tube pwr supply info needed
by "Bill Jones" <kd7s@psnw.com>
- 75) [105470] Re: Iron on schematics
by "Rob Matherly" <kc0bom@yahoo.com>
- 76) [105471] RE: Iron on schematics
by "E. Roswell" <eroswell@monmouth.com>
- 77) [105472] Re: Iron on schematics
by "Tom Dufresne" <tdufres@hotmail.com>
- 78) [105473] Re: Iron on schematics
by "Rob Matherly" <kc0bom@yahoo.com>
- 79) [105474] Re: tube pwr supply info needed
by W2SH@aol.com
- 80) [105475] Re: Resonant Antenna
by "Mike Branca" <w3irz@att.net>
- 81) [105476] Re: tube pwr supply info needed
by "Mike Branca" <w3irz@att.net>
- 82) [105477] Re: Iron on schematics
by "Mike Yetsko" <myetsko@insydesw.com>
- 83) [105478] Re: Iron on schematics
by "Mike Yetsko" <myetsko@insydesw.com>
- 84) [105479] [Fwd: [Elecraft] Antarctica HF Operations]
by Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
- 85) [105480] Portable SWL RX for CW??
by lhlousek <lhlousek@nvhbell.net>
- 86) [105481] Re: RBA-1 Balun
by Larry Cahoon <lejek@erols.com>
- 87) [105482] RE: Costco "Atomic" clock
by Larry Cahoon <lejek@erols.com>

Date: Tue, 21 Aug 2001 18:00:18 -0500
From: "Mike Malone" <mmalone@worldlogon.com>
To: "Low Power Amateur Radio Discussion" <grp-1@Lehigh.EDU>
Subject: [105396] Re:CUB FOX replacement notice!

Message-ID: <000501c12a95\$0d6c2750\$4800000a@nationwiderecovery.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Gang,
KD5KXF will be your replacement fox this evening. I will be operating the high slot and will work around 14.061 +/- qrm. I will be listening up and down up to 1khz. Please dont qrm the digi folks, I wont be listening there anyway. This is the CUB hunt so I will be looking for 10 to 13 wpm and sending in that range as well.

I will call " CQ FOX CQ FOX DE KD5KXF K " send your call and I will respond with ur call, " RST, SPC, NAME, PWR " , ur call BK. You send me RST, SPC, NAME, PWR BK and I will confirm with RRR and 73 or I will ask for fill with BK whatever I missed BK. If I really screw the pooch then I will ask BK RPT BK and have you send the whole thing again. When I send 73 and call QRZ FOX K you guys let it rip.

I only gave out 18 pelts last time so I hope we can beat that. Please come get this fur, is mucho hot in TX!!! FYI QTH is nr Dallas, TX and I will be running 5 w to K2 with 40 meter inverted v @ 30 feet. Keying will be with my Tenekey and logging will be via pencil and paper. CUL and hope the propogation is awesome!
Mike, KD5KXF

Date: Tue, 21 Aug 2001 18:15:08 -0500
From: "George, W5YR" <w5yr@att.net>
To: mmalone@worldlogon.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105397] Re: CUB FOX replacement notice!
Message-ID: <3B82EB7C.5870C442@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Go get 'em, Mike!

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Mike Malone wrote:

>

> Hello Gang,

> KD5KXF will be your replacement fox this evening.

Date: Tue, 21 Aug 2001 19:28:15 -0400
From: "George Osier" <gosier@twcnny.rr.com>
To: <qrp-l@lehigh.edu>
Subject: [105398] TK8T # 89700 mw !!!!
Message-ID: <001301c12a98\$f422c700\$fc704342@twcnny.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

From: "George Osier" <gosier@twcnny.rr.com>
To: <qrp@yahooogroups.com>
Subject: TK8T #89700 mw !!!!!
Date: Tuesday, August 21, 2001 7:27 PM

Hello All !!!!!

Worked TK8T at 2133 UTC on 20 meters CW
700 mw for number 89 worked !!!

73s

George , N2JNZ / QRPP

Date: Tue, 21 Aug 2001 17:02:57 -0700
From: Dan Tayloe <dtayloe@home.com>
To: n2cx@voicenet.com, qrp-l <qrp-l@Lehigh.EDU>
Subject: [105399] Re: SSS Kits
Message-ID: <3B82F6B1.76DA2E5F@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I guess it bears repeating. A bug was found in the SSS software where every 256 Hz the frequency is off by 256 Hz. It is a PIC timing glitch, which has now been fixed. I don't think most folks will notice, but it is not right and I am offering to make it right.

In addition, I am throwing in an extra frequency mode to help offset the inconvenience of sending for a replacement.

I got the new PICs to Bob Sunday. You can tell if you have the new fix/upgrade by checking for a silver dot or a silver covered top on the top side of the PIC. Those paint pens are a real pain. It takes longer to mark them than it does to program them!

Below is a copy of the original note sent out Saturday.

- Dan, N7VE

----- Original Message -----

From: "Dan Tayloe" <dtayloe@home.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Saturday, August 18, 2001 1:58 AM

Subject: SSS Bug and other SSS information

> Oh, well.....

>

> A bug was found in the SSS software. Every 256 Hz it is possible to get
> a 1 Hz wide frequency "glitch" that is 256 Hz off. Chuck Olson, WB9KZY,
> of Jackson Harbor Press fame found the problem.

>

> When the PIC prescaler register is used to drive the internal timer
> register, it is important to place a delay between the closing of the
> frequency counter pulse gate and the first reading of timer register,
> because the prescaler can propagate a carry "late". The same problem
> exist when trying to empty out the prescaler register, a delay must be
> allowed after incrementing the prescaler for the carry to propagate.
> This problem can be observed on any frequency that is divisible by 256
> Hz.

>

> It was difficult for me to reproduce the problem, since I had to hit a 1
> Hz window exactly dead on to observe the bug. I was using a signal
> generator as a signal source, and the generator would usually drift
> right past the problem frequency without actually landing on it.

>

> I was finally able to reproduce the problem reliably by using a crystal
> and warping its frequency to land on one of the problem frequencies.
> This problem has now been fixed.

>

> I used the "F" mode a lot in the process of debugging this problem. I
> began to think that a repeating "F" mode would be useful to include in
> the new software. I will send any one who has bought a SSS kit a new
> PIC with the bug fix and the new "FR" mode which repeats forever 1s KHz,

> "R", 100s Hz, 10s Hz, and 1s Hz. Great for crystal matching or measuring
> frequency drift. I simply request that you send me a return address
> label and a stamp.
>
> My address is:
>
> Dan Tayloe, N7VE
> 14240 South 7th Street
> Phoenix, Az 85048
>
> A few more comments should also be made about the frequency range of the
> counter. The maximum input frequency for the PIC frequency prescaler is
> rated by Microchip as 50 MHz maximum. Despite this, the slowest PIC I
> have seen so far measures to 75 MHz, the fastest has gone over 200 MHz,
> and many are over 150 MHz. What you actually get is the luck of the
> draw. In any case, the PICs are a good deal faster than their 50 MHz
> rating.
>
> The upper end of the 74HC00 chip is over 100 MHz. Much faster than that
> and a 74AC00 may be required if the PIC is fast enough to keep up.
>
> On the low frequency end, the 74HC00 chip is the limitation. The chip
> is rated for frequency edge transitions as slow as 500 nsec. As far as
> the counter is concerned, this means that the chip is not rated to count
> sinewaves slower than 1 MHz. In practice, all go down to at least 500
> KHz, most to 200 KHz and some to 100 KHz. Below 250 KHz or so and the
> chip starts behaving as though there is no input and begins "free
> running" between counts. The end result is that the frequency readings
> start becoming artificially high as the frequency gets too low.
>
> So, on the high end the PIC gives out, and on the low end the 74HC00
> input squaring gate stop seeing good high-to-low and low-to-high
> transitions because the transitions get too slow.
>
> Like I said if you have already have purchased a SSS, send me an address
> label and a stamp, and I will send out an upgraded PIC complete with a
> new measurement mode.
>
> - Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Tue, 21 Aug 2001 17:14:10 -0700 (PDT)
From: Dan Reynolds <bcdlr@yahoo.com>
To: qrp-L Reflector <qrp-l@Lehigh.EDU>
Subject: [105400] FS: Epiphyte 3 & RS 2M Amp
Message-ID: <20010822001410.79356.qmail@web13105.mail.yahoo.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Sorry for the posting but I wanted to offer to this group first.

Epiphyte 3 kit, completed up to installing the socketed ICs and final (testing and alignment stage). It is missing the 6 pin Molex socket (Con 2) - can't find it. Everything else is there and I will throw in a turns counter and a Compaq Electret Condenser mic. If I get a good enough offer I will throw in a Ron Stone freq. counter. Nothing wrong with it. Just lost interest.

Radio Shack 2 meter amp, 19-1122, 0.5-5 watts in 30 watts out. I know not QRP... Hardly used, not much interest in 2 M FM either.

Best offer on either / both. You pay shipping. Can do PayPal. Email me off of this list or I won't answer!

Dan Reynolds, KB9JLO

Do You Yahoo!?

Make international calls for as low as \$.04/minute with Yahoo! Messenger
<http://phonecard.yahoo.com/>

Date: Wed, 22 Aug 2001 00:18:30 +0000
From: jacksonharbor@att.net
To: qrp-1@lehigh.edu
Subject: [105401] Ideas for the SSS counter kit
Message-ID:
<20010822001831.TORM8481.mtiwmhc22.worldnet.att.net@webmail.worldnet.att.net>

8/21/2001

Here are a few ideas for modifications and uses for the Arizona ScQRPions SSS frequency counter kit:

1) Lower the profile: The SSS is already "altoidsable" or "sucratable" but one easy way to make the kit even lower in height is to substitute an HC-49S cased crystal in place of the Fox HC-49U crystal provided with the kit. I used a 4 MHz ECS crystal available from either Digi-Key (X405-ND) or Mouser (520-HCU400-20)

2) Use connectors for I/O: Instead of soldering the wires for power, switch, input connector and piezo

speaker directly to the circuit board, I soldered pin sockets and simply plug the off board components into the board - this makes horsing the board in and out of the case easier. The pin sockets are simply the individual pins of a machine pin socket like those provided with the kit for the two ICs.

3) Change the regulator: I substituted an LM2936 regulator for the 7805 provided with the kit. Another choice might be the LM2940 which has the same case/pinout as the 7805. The reason for changing the regulator is that this reduces the "dropout" voltage required for good regulation - another way of saying this is that the battery or supply voltage can decrease to a much lower point before the voltage regulation starts to be affected. In addition, D1, the series reverse polarity protection diode can be jumpered or replaced with a short circuit since the low dropout regulators mentioned have this protection built in. This also lowers the dropout voltage of the circuit since the forward voltage drop across the diode is now replaced with a short. Note that an output capacitor (I used a 10 uf tantalum) is required to enhance the stability (prevent oscillation) of the new regulator.

4) Change the 74HC00 gate: If the SSS is to be used to measure relatively low frequencies (audio), a change in the counter gate is recommended. I used a 74HC132 which is a 74HC00 compatible NAND gate - the HC132 has the additional characteristic of hysteresis on it's inputs which allows relatively slow transitions on the inputs to be handled without "extra" counts being introduced. One disadvantage of the HC132 is that the upper frequency range and the sensitivity of the SSS will probably be affected.

5) Hook the SSS to a PC for datalogging and display: Remembering the often said words of one of my former bosses: "Can't we automate this somehow?" I tried hooking the SSS counter to my IBM compatible PC.

For those who may remember it, I used a simple circuit and software very similar to that used in the Memload circuit and software. Memload was used to control a keyer from a PC for the purpose of loading the memories.

An open collector pin on the PC parallel (printer) port is used (via a simple Qbasic control program) to "press" the switch of the SSS counter. The PC control program (SSS.bas) then "listens" to the SSS via a simple diode-resistor-capacitor detector which is optionally buffered with a 74HC14 or 74HC04 inverter. The control program then decodes the Morse characters sent by the SSS counter and then displays them on the PC screen and also writes them to a PC data file. The inquiry of the SSS counter by the PC is timed, once each 10 (or more) seconds.

For more information (schematic and program), see my projects page:

[<http://members.itol.com/~wolson/projects.htm>](http://members.itol.com/~wolson/projects.htm)

This takes the tedium out of drift testing of oscillators - once the program is started, it can be left running for minutes (or hours ;) without input from the operator. At the conclusion of the test, the operator can take the data file and import it into a spreadsheet program - from there, graphs can be generated or other manipulation of the data can be performed. I'd also suggest putting a switch in series with the piezo speaker to allow silent operation of the extended test ;)

6) Other (unexplored) ideas for the PC + SSS combination: Other than drift testing, the SSS + PC could be used for statistical evaluation of frequency related parameters - one example is crystal sorting and crystal supplier evaluation. A control program could be written to respond to a manual start of the SSS output. A population of crystals could be serial numbered, then tested - each inserted into an oscillator, possibly allowed to warm up and then have the oscillator frequency measured by the SSS. This data would then be written to a data file - this file could then be analyzed using a spreadsheet program - the results could be sorted, tested with statistical formulas, etc.

7) Another untried idea: use the SSS + PC combo to measure the value of capacitors or inductors. Measuring passive component values using a PIC microcontroller has

been done previously by others:

Neil Heckt: <<http://www.aade.com/>>
Fr. Tom McGahee: <<http://redrival.com/mcgahee/>>

but these were done the "hard" way, the PIC had to both measure the frequency of a circuit and then convert that measurement to a human readable form. The PIC processor used in the SSS counter is good at counting frequencies but performing calculations is relatively hard to accomplish. A PC can do very complex calculations but has a problem counting frequencies the way a PIC does. Putting the counter and PC together allows the user to easily and inexpensively measure the value of components - Neil Heckt's approach is very well thought out and should be adaptable to the SSS + PC combination. Basically the capacitor or inductor to be measured becomes part of an LC oscillator - the value of the device under test (DUT) can be determined using the oscillators frequency (as measured by the SSS ?) when the device is in and out of the circuit. Relays (as used in the AADE design) could be actuated using the various unused signal lines on the parallel port (buffered by simple open collector transistor driver circuits).

Best Regards,

Chuck Olson, WB9KZY
Jackson Harbor Press
<http://jacksonharbor.home.att.net/ham.htm>
jacksonharbor@att.net

Date: Tue, 21 Aug 2001 21:24:09 -0400
From: "elawson" <elawson@lawson-philpot.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105402] Cub Fox Log for 8-15
Message-ID: <013101c12aa9\$2578d500\$0e01a8c0@office.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Despite being summer, life is very hectic in my den so this is a bit late, but the other is even later. If any hunters find errors, please let me know

so corrections can be made before it goes final. Made 34 which is better than first time and I did not embarrass myself quite as much. Great experience, thanks to all the Hounds for a good time. Condx were not all that great, but the OHR 500 had good ears.

Ed
K1VP

N1TP	559	FL	TOM	5W		
K8CU	559	MI	WALT	5W		
K4FB	579	FL	PAUL	2W		
K4BYF	559	FL	JACK	5W		
W9UQB	559	AZ	MIKE	5W		
KB9YIG	559	IN	TONY	5W		
K5DI	579	NM	KARL	5W		
N6XG	559	CA	WALT	200MW		
KJOC	559	MO	JIM	5W		
K0EVZ	559	ND	DOC	5W		
N0TK	559	CO	DON	4W		
W0CH	559	MO	DAVE	5W		
K4TJD	559	GA	TOM	5W		
KI0II	559	CO	RON		1W	
K2JHZ	449	RI	KEN		5W	
K8FD	559	MI	JOHN		5W	??????
W5YR	559	TX	GEORGE	5W		
KI6RS	459	CA	RON		5W	
W0HL	559	IL	RANDY		5W	
K1FES	559	CT	RICK		2W	????
KC1FB	559	CT	JIM		2W	HARDEST
WE9K	559	WI	GLEN		3W	
KB7WW	559	OR	ART		5W	
W3CD	589	CA	BOB		5W	
AA7EQ	559	AZ	BOB		5W	
VA6RF	559	AB	EARL		5W	
WG0T	559	ND	TODD		5W	
K4GT	339	GA	JOHN		5W	
W76ABC	599	CA	JACK		5W	
VE5RC	559	SK	BRUCE		5W	
AD6JY	449	CA	DAN		5W	
KG4FGC	449	NC	KEN		5W	
VE3AFD	579	MAN	BRUNO		65W WITH VINTAGE GEAR	
N0IN	559	MO	DAVE		5W	

K1VP

550

NH

ED

5W

Date: Tue, 21 Aug 2001 20:31:15 -0500
From: "Mike Duke" <k5xu@concentric.net>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [105403] Number for RS Phone Filter
Message-ID: <001001c12aaa\$38e01120\$26020240@k5xu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Will someone please e-mail me the Radio Shack catalog number for the
telephone rfi filter?

I'm trying to help a blind friend in another area reduce interference from a
qro station.

Mike Duke, President,
American Council of Blind Radio Amateurs

Date: Tue, 21 Aug 2001 21:31:49 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: qrp-1@Lehigh.EDU
Subject: [105404] New Products
Message-ID: <20010822013328.WQNK29133.tiberius@n8et>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I have added a (very brief) new section on my web page introducing

The direct link to the relevant part of my web site is:
http://www.bright.net/~kanga/kanga/tormet_engineering.htm

Right now Dick publishes an excellent reference book, and produces a
series of small variable oscillators that would be very useful in homebrew
projects.

Take a look - I think you will find it interesting.

73 - Bill - N8ET
Kanga US
kanga@bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Tue, 21 Aug 2001 21:55:19 -0400
From: "elawson" <elawson@lawson-philpot.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105405] Prelim Cub Fox Hunt Log for 7-25
Message-ID: <014101c12aad\$7fe04ec0\$0e01a8c0@office.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Talk about late...Then again you should see all the chicken scratches on the paper that is supposedly my log for this Cub Fox hunt...Hard to figure out what I was doing and while I was being hunted I really don't think I knew what I was doing.. Hounds were kind, but I tried even Doc's patience. First time is a real learning experience and condx were bad..bad..bad this night for me. Please give me corrections..and I expect quite a few...so I can finalize the log.

Ed
K1VP

K4FB	569	FL	PAUL	5W	
NB0W	579	NE	SCOTT	2W	
W9FON	559	WI	MIKE	2W	????
W9U QB	449	AZ	MIKE	2W	
K4BYF	559	FL	JACK	2W	
VE5RC	559	SK	BRUCE	5W	
VA6RF	559	AB	KARL	5W	
AF4PS	589	FL	MAC	3W	????
K5DI	559	NM	KARL	5W	
K0EVZA	559	ND	DOC	5W	
KG4FSN	559	FL	JUAN	4W	

W5YR	559	TX	GEORGE	5W	
AC5JLT	559	OK	TOM	5W	
WG0T	559	ND	TODD	5W	
K6III	469	CA	JERRY	5W	
KC0GXX	559	NE	TOM	5W	
K7MM	549	CA	JERRY	5W	?????
N9NE	559	WI	TODD	1W	
W3CD	559	CA	BOB	5W	
AA7EQ	559	AZ	BOB	5W	
KI6RS	559	CA	RON	5W	
N9TK	559	IL	DAN	3W	
KI0C	559	WI	JIM	5W	?????
K1VP	550	NH	ED	5W	

Date: Tue, 21 Aug 2001 18:58:27 -0700
 From: Elda & Doug Wilson <ewilson@nccn.net>
 To: Low Power Amateur Radio Discussion <grp-1@Lehigh.EDU>
 Subject: [105406] N to BNC
 Message-ID: <3B8311C3.965AF12B@nccn.net>
 MIME-Version: 1.0
 Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
 Content-Transfer-Encoding: 7bit

Wow! I believe I had nine responses to the connector offer. I'm sorry I don't have more.

Because I did not think to mention who would get them, ahead of time, I arbitrarily chose the first one to answer.

If I do something like this again, I'll draw a name out of a hat. (Unless someone has a better idea.)

72 to all

--

Doug Wilson k6rpn
 Grass Valley, CA

Date: Tue, 21 Aug 2001 20:23:23 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [105407] Re: OT --Calculators
Message-ID: <20010821.202325.-16755.10.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

WOW! OT or not, that is what the internet is really for - what a great site.
Thanks Alan

73

Ray

"Politicians are like nappies. Both should be changed regularly -- and for the same reason"

"Scotsman - Scotsman's Diary 12/97"

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M SOC#78
fp #111 ARCI-5784 NCT2R El Paso, (FAR WEST) TEXAS

Date: Tue, 21 Aug 2001 21:25:04 -0500
From: "Mark A. Andrews" <KE4IOF@KE4IOF.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [105408] OT: Palm Logging Software
Message-ID: <001f01c12ab1\$a86edba0\$c3eb4cd8@carrera>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have just posted PRL 3.0 to my website. If you would like to download a copy to try on your Palm OS based handheld, go to www.KE4IOF.com.

Thanks for the bandwidth.

73,

Mark, KE4IOF
QRP-L #146

Date: Tue, 21 Aug 2001 22:32:38 -0400
From: John Wagner <john@wagner-usa.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105409] FOX: Got Mike....
Message-ID: <3B8319C6.430B262A@wagner-usa.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Took a few tries, but I got Mike, KD5KXF - clipped him on the first go 'round, but had to finish the job off with another round, reloaded and shot for the third time and finally pelted the pesky Texan. Thanks for sticking it out Mike, condx not so great here either.

Mike is on 14.061 listening up.

Anyone got a spot on W0MC?

73 de John, N1Q0

--

John Wagner - john@wagner-usa.net
Web page: <http://www.neknetwork.com>

Date: Tue, 21 Aug 2001 20:36:38 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-1@lehigh.edu>
Subject: [105410] FOX Gads Scunk Time!
Message-ID: <Pine.LNX.4.33.0108212031270.2795-1000000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I knew it was going to be tough this week. The replacement Cub Fox in Dallas is not even a whisper here in Southern NM. I don't know who the other Cub Fox is, but he is less than a whisper.

I'm not using my 10 foot dipole this time, it's a 6 element beam at 60 feet pointed due east for Dallas. There are 599 QRM and Hounds working the fox. I just have no propagation tonight...

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 21 Aug 2001 22:42:49 -0400
From: John Wagner <john@wagner-usa.net>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105411] Re: FOX Gads Scunk Time!
Message-ID: <3B831C29.D57CC07B@wagner-usa.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sheesh Karl, with a beam up that high you oughta be able to launch
SOMETHING and hit Dallas! Heck, if it tipped over it might land on El
Paso anyway.

I can't hear W0MC or any hounds down there, I hope he's on.

73 de John, N1Q0

"Karl F. Larsen" wrote:

>
> I knew it was going to be tough this week. The replacement Cub Fox
> in Dallas is not even a whisper here in Southern NM. I don't know who the
> other Cub Fox is, but he is less than a whisper.

>
> I'm not using my 10 foot dipole this time, it's a 6 element beam
> at 60 feet pointed due east for Dallas. There are 599 QRM and Hounds
> working the fox. I just have no propagation tonight...

>
> --
> Yours Truly,

>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

--
John Wagner - john@wagner-usa.net
Web page: <http://www.neknetwork.com>

Date: Tue, 21 Aug 2001 22:47:35 -0400
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-l@Lehigh.EDU
Subject: [105412] Fwd: [NoGaQRP] NOGA QRP CW Net for August 21, 2001
Message-ID: <5.0.2.1.2.20010821224638.00a3e020@pop.mindspring.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

NOGA QRP Net meets every Tuesday, 9:30pm Eastern Time, 3686.4 or thereabouts...

72 de Mike, K04WX

>Date: Tue, 21 Aug 2001 22:19:44 -0400

>To: North Georgia QRP Club <nogaqrp@qth.net>

>From: "Michael C. Boatright" <ko4wx@mindspring.com>

>Subject: [NoGaQRP] NOGA QRP CW Net for August 21, 2001

>Sender: owner-nogaqrp@qth.net

>Reply-To: "Michael C. Boatright" <ko4wx@mindspring.com>

>

>QRN levels were down just a little bit and signals were up a tad for a
>change. Nice to have 3 states check in with FB signals.

>

>QNI:

>

>AF4MN, Guy, in Conyers, 599 (sorry for sending you 579 first time, you
>were solid 599 into Decatur)

>W3IRZ, Mike, in Conyers, 599 FB signal and nice fist--1 Watt with your GA
>Sierra, right?

>KU4FL, Tracy, in Huntsville, AL, 539, down a couple of hundred HZ, but got
>you with my RIT. Thanks again for y'all's hospitality...

>WJ4P, Randy, in Charleston, SC, 599 also FB signal and nice fist!

>

>Rig at this end was Yaesu FT890 cranked down to 5 Watts (only operational
>rig in the shack on 80M right now...).

>

>72 de Mike, K04WX/NQ4RP

>Michael C. Boatright

>

>

>---

>Submissions nogaqrp@qth.net -- To unsubscribe, send majordomo@qth.net a
>msg. Put "unsubscribe nogaqrp" in body.

Michael C. Boatright

Date: Tue, 21 Aug 2001 22:52:06 -0400

From: John Wagner <john@wagner-usa.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [105413] Re: FOX Gads Scunk Time!

Message-ID: <3B831E56.3F429199@wagner-usa.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ahem... that came out wrong - sorry Jerry.

K1VP gave me a spot, somewhere near 14.054.6.

John Wagner wrote:

>
> I can't hear W0MC or any hounds down there, I hope he's on.
>
> 73 de John, N1QO

--
John Wagner - john@wagner-usa.net
Web page: <http://www.neknetwork.com>

Date: Tue, 21 Aug 2001 22:55:27 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: "George, W5YR" <w5yr@att.net>, "Bill Coleman" <aa4lr@arrl.net>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105414] Re: RBA-1 Balun
Message-ID: <20010822025626.UVPH10769.imf02bis.bellsouth.net@[192.168.0.20]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/21/01 2:51 PM, George, W5YR at w5yr@att.net wrote:

>
>Bill Coleman wrote:
>
>> >Getting back to baluns, I guess you'd want that common mode impedance to be
>> >high with respect to the 50 ohm impedance of the transmission line. With
>> >iron powder and a practical number of turns, you might not get there,
>> >especially on the lower frequency bands.

I didn't write that -- I was responding to it.

>Bill, I think that the defining impedance here is not the Z_0 of the line
>but the impedance of the common-mode circuit that you are trying to "choke"
>with the balun. That impedance can be very high, in which case a balun will
>have little or no effect, or reasonably low, in which case the balun can be
>quite effective.

According to an article in QEX on current baluns by Sabin, W0IYH, the impedance is related to the Z_{in} (the line impedance), Z_{out} (the antenna impedance) and the offset of the Z_{out} with respect to ground (usually $Z_{out}/2$). Essentially, you need at least 4 times the sum of Z_{in} , Z_{out} and the maximum offset of Z_{out} .

It is the common-mode impedance that is important -- and you want a high common-mode impedance. A low common-mode impedance doesn't effectively choke the common mode currents, which leads to imbalances.

>Sorry, but I cannot offer any suggestion for actually measuring the c-m
>impedance, but this may explain why, in some situations, a balun seems to
>have little or no effect, while being quite effective in others.

The common mode impedance is actually relatively easy to measure. It is the impedance of one of the wires in a bifilar (Guanella) current balun.

>Tom Rausch, W8JI, has posted extensively on this topic in
>rec.radio.amateur.antenna newsgroup.

Yes, Tom Raunch and I have exchanged much e-mail on the subject. Tom was one of the first to point out that loss tangent causes failure in ferrite cored baluns, usually of the W2DU balun.

Tom knows his stuff.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Tue, 21 Aug 2001 22:58:49 EDT
From: W2SH@aol.com
To: david.sarrafa@paonline.com
Cc: qrp-l@lehigh.edu
Subject: [105415] Re: grid-leak bias
Message-ID: <2f.19a16dd0.28b479e9@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Dave,

This was a useful tutorial.

Trusting only my memory, and without taking the time to consult any written references, I think that with grid leak bias the voltage is developed from the driving power across the grid resistor, whereas the voltage developed (usually across several megohms, as you point out) by electrons striking the grid on their way to the plate is called contact potential bias.

As a footnote, bias from two different sources is often applied simultaneously. This usually occurs when a negative voltage developed by rectification of the signal (and this rectification can be done at audio frequency, intermediate frequency, signal frequency or a noise frequency) is applied to reduce the gain of an amplifier, and this negative voltage is in addition to the bias applied. As you explained, a resistor in the cathode lead puts the cathode at a more positive potential than the grid, i.e., the grid is more negative than the cathode. However, when a negative signal-derived rectified voltage is applied to the tube's grid for automatic gain control purposes, it reduces the cathode-to-plate current flow and therefore reduces the bias previously established by the presence of the cathode resistor. The agc action is thus to a certain extent self-defeating.

Early models of the Hammarlund Super Pro did not have cathode bias, but rather fixed negative grid bias which was not defeated, but only supplemented, by the additional application of a negative agc voltage.

I guess all this must be OT, but does that mean Off Topic or Olde Tyme?

72/73,

Charles, W2SH

Date: Tue, 21 Aug 2001 22:59:11 EDT
From: W2SH@aol.com
To: qrp-l@lehigh.edu
Subject: [105416] RE: Slingshots
Message-ID: <18.111d74f5.28b479ff@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

This thread got pretty long and wooly. I'm pretty negative on using a slingshot, as the following excerpt from a FDIM 2000 presentation shows.

Securing the Antenna Support Points

Although this is always the most exciting aspect of wire antenna erection, it

has no bearing whatsoever on the ultimate success of the overall exercise. That is determined by how wisely the antenna support points and the construction materials have been chosen. Much, indeed, far too much, attention continues to be given to different launch mechanisms. Over the years, the amateur radio press has described the use of bows, fly casting rods, golf clubs, rocks, sand-filled socks, slingshots, tennis racquets, kites and clutches of helium-filled party balloons to place a line over an antenna support point. Kites and balloons cannot lay down a line in a precise location. Unless Pedro Martinez of the Boston Red Sox is engaged, rocks and socks won't find their mark at a respectable antenna height. As for clubs, racquets, rods and slingshots, if there is nothing but open sky near and beyond the target area, then use of a round projectile such as a ball or lead weight is justified. However, twigs and branches are almost always present, and, when struck by the projectile, they cause it to ricochet wildly, winding the trailing line around any fixed object in its path. Retrieving the projectile at ground level with the line still in tow becomes impossible.

I have found nothing which will better pierce straight through leaves and twigs without severe deflection than a 30"-long, weighted arrow, shot from a compound bow. Usually traveling at better than 150 miles per hour, if the arrow strikes a branch, it will certainly change course, but the extreme length of the arrow in relation to its mass keeps it from winding the trailing line around objects in its path. Therefore, the bow and arrow clearly constitute my launch mechanism of choice, and to their use I have coupled several important refinements.

72/73,

Charles, W2SH

Date: Tue, 21 Aug 2001 21:08:30 -0600
From: "Jerry McCollom" <w0mc@club-pre.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105417] FOX W0MC QSY Down to 14.054...
Message-ID: <004101c12ab7\$b8a9c4c0\$baac11d8@dsl.frii.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hounds,

I was getting QRM'd, so I'm down at 14.054 w/ my RIT up .3 (according to my K2... may be off a bit). K2 #176 is calling CQ FOX as I type...

Jerry
WOMC
Fort Collins, CO

Date: Tue, 21 Aug 2001 23:19:41 -0400
From: Ed Kessler <edkess@pa.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: "Eastern PA QRP Club" <epaqrp-1@Lehigh.EDU>
Subject: [105418] N1TEV's Ultra Simple W1AW Receiver
Message-ID: <5.0.2.1.0.20010821230557.00a1e2f0@mail.pa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

About a week ago someone mentioned the "ultra simple" regen. using a colorburst crystal and some simple circuitry designed by Charles Kitchen, N1TEV. That peaked my interest. After photocopying the articles from a friend's QST library, I threw the circuit together, and have been having some fun with it.

I made a few mods to adjust the receiver to my listening preferences and my 10ft. wire antenna.

C1 (100pF) was changed to a .01 to increase sensitivity.

I also added a small variable capacitor in series with the crystal to ground to move the crystal up several hundred Hz.

And I included the volume control for additional gain with the LM386.

I also noticed that my very sensitive Sony earphones work great, while a cheap set bought at the CVS drugstore resolves nothing but hiss.

Now, I can drape the wire antenna over the curtain rod in my living room, sit in my lazy boy recliner and listen to 80m W1AW code practice and bulletins. Neat.

The article references are:

May 1997 QST 34 An Ultra Simple W1AW Receiver

Nov 1997 QST 70 Ultra Simple W1AW Receiver Notes (Technical Correspondence)

If you're looking for a simple, quick, but fun little project, give this a try. It's amazing what can be done with some simple circuitry. Total cost = \$0; Total Time = about 1hr, including scrounging around in my junkbox.

73

Ed AA3SJ

Date: Tue, 21 Aug 2001 23:41:15 EDT
From: BenNW7DX@aol.com
To: qrp-1@lehigh.edu
Subject: [105419] Fox- NW7DX invites YOU! Thursday night!
Message-ID: <3d.106391b3.28b483db@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

You are invited to the fox hunt spectacular! This Thursday night (in USA) I will be foxing it out with N6WG, looking for YOUR pelts. Bob N6WG will be somewhere around 14.060 or above, and I'll be somewhere around 14.055.

The hunt goes from 0200 - 400z, which means 7-9 pacific, 8-10 mountain, 9-11 central, and 10-12 eastern. (I hope I didn't screw those up :) I urge ALL of you to get on the air and give us a call.

At the start of the hunt, I will be listening up about 1 khz. As you know, the exchange is RST STATE NAME PWR.

I will be operating from home, using my TS-570 and an 80mtr loop up 70ft. I hope to put ALL of you in the log!

73 and good luck,
Ben - NW7DX
Redmond, WA

Date: Tue, 21 Aug 2001 22:40:47 -0500
From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [105420] Re: FOX Gads Scunk Time!
Message-ID: <200108220340.AA00380@bolshoi.cc.misu.nodak.edu>
Content-Type: text/plain
Mime-Version: 1.0 (NeXT Mail 4.2mach_patches v148.2)

Took an hour and a half before I could bag Mike, but by that time Jerry had gone from weak to non-existent. Took all of 5W and more than a few tries for Mike, so propagation wasn't exactly my friend tonight. :-/ Will hold out for Jerry, wherever he is, but looks like a 1-for-2 night tonight. Oh well, such is summertime on 20m.

72/73,

Todd, AG0T

Date: Tue, 21 Aug 2001 22:58:09 -0500
From: "Mike Malone" <mmalone@worldlogon.com>
To: <enders@bolshoi.cc.misu.nodak.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105421] Re: FOX Gads Scunk Time!
Message-ID: <001401c12abe\$aa115520\$45f7a7cc@malonefamily>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

tnx fer tuffing it out... getting lonely hounds commmee on.

-----Original Message-----

From: Todd Enders <enders@bolshoi.cc.misu.nodak.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Tuesday, August 21, 2001 10:46 PM
Subject: Re: FOX Gads Scunk Time!

>
> Took an hour and a half before I could bag Mike, but
>by that time Jerry had gone from weak to non-existant. Took
>all of 5W and more than a few tries for Mike, so propagation
>wasn't exactly my friend tonight. :-/ Will hold out for Jerry,
>wherever he is, but looks like a 1-for-2 night tonight. Oh well,
>such is summertime on 20m.
>
>72/73,
>
>Todd, AG0T

Date: Tue, 21 Aug 2001 23:19:51 -0500
From: "Mike Malone" <mmalone@worldlogon.com>
To: "Mmalone" <mmalone@worldlogon.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105422] Re: Thanks for the fun Cub fox hunters!
Message-ID: <002201c12ac1\$b2204ac0\$45f7a7cc@malonefamily>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Man oh man... we had some strange up and down conditions tonight... I would have a good signal on rx and it could drop to esp like that. Sorry for all the repeats... heheheh can't blame all that on mother nature though. I have a certain level of QSB in my skull. Looks like 36 pelts so at least I beat my last run. Will have log out tomorrow. Thanks for the fun run guys and look for me next week with a new improved antenna. CUL es TNX

KD5KXF

Date: Tue, 21 Aug 2001 22:29:07 -0600
From: "Jerry McCollom" <w0mc@club-pre.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105423] W0MC CUB FOX Preliminary Log
Message-ID: <010b01c12ac3\$094cc520\$baac11d8@dsl.frii.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hounds,

Well, tough going again on 20. Sounds like the band was long with plenty of QSB. I could tell there were many of you in the noise, but I had trouble picking out calls. Looks like I bagged 25 pelts. Here's the preliminary log, please correct or fill as needed!

(PS -- Kudos to my son Tony for being my log keeper for the first 20 minutes of the hunt! It's pretty good for an 11 year old to decode bursts of information in the form of grunts and hand gestures from a deeply-concentrating Dad :-)

Thanks & 72,

Jerry
W0MC

W0MC Cub Fox Hunt Log
22 August 2001 0200Z

CALL RST RST SPC NAME PWR
 RCV SND

KD5KXF	599	339	TX	MIKE	5W
K4GT	559	559	GA	JIM	5W
NV4V	559	599	KY	PETE	5W
N5YFC	559	229	LA	WAYNE	5W
N0RC	599	599	CO	ROD	100MW

WA7SPY	559	559	CA	GLENN	5W
N4SO	559	559	GA	KEN	5W
K4TJD	559	579	GA	TOM	5W
K8CV	559	559	MI	WALT	5W
KB7WW	559	599	OR	ART	5W

W3CD	589	579	CA	BOB	5W
K1VP	559	579	NH	ED	5W
AF4PS	559	559	FL	MAC	3W
K4BYF	559	559	FL	JACK	5W
N1TP	559	579	FL	TOM	5W

N4ROA	559	559	VA	DAN	5W
K4FB	559	579	FL	PAUL	4W
N0IT	559	339	MO	DAVE	5W
KC1FB	549	559	CT	JIM	3W
VE1MT	339	599	NS	LAYTON	5W

AA7EQ	339	339	AZ	BOB	5W
KG4FGC	549	559	NC	KEN	5W
VA6RF	???	559	AB	EARL	??
KB9YIG	549	599	IN	TONY	5W
KJ0C	559	599	MO	JIM	5W

Date: Wed, 22 Aug 2001 00:30:22 -0400 (EDT)
 From: Frank Brickle <brickle@pobox.com>
 To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
 Subject: [105424] A bit OT -- picking a (rare) grid square?
 Message-ID: <Pine.BSI.4.05L.101082200000060.3410-100000@pluto.njcc.com>
 MIME-Version: 1.0
 Content-Type: TEXT/PLAIN; charset=US-ASCII

Working furiously :-/ at some light yagis, planning to operate on three bands at 5w in the upcoming VHF QSO Party. Since it's so easy to cart around the whole setup I'd like to take it somewhere interesting -- both for myself and the other testers. Someplace not *too* far from home.

The question is where. Ignorance to the fore here. Is there available some list ranking grid squares by frequency (in the statistical, not

wavelength, sense)? Any method better or more trustworthy than word-of-mouth for picking a destination square? *Anyplace* more desirable than FN20 within reasonable travel distance?

The obvious refs are silent about this.

Thanks and 73
Frank
AB2KT

Date: Wed, 22 Aug 2001 00:44:02 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: FP List <fpqrp-1@mpna.com>, QRP-L <qrp-1@lehigh.edu>
Subject: [105425] Contest- K4FB Bubba Plans
Message-ID: <3B833891.5A3CAB63@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Look for the K4FB multi-op team this Saturday during the Bubba Sprint.

Info at: <http://www.extremezone.com/~nk7m/bubba01.htm>

With temps in the mid 90's plus a high dew point , our temp multiplier will be high on the mercury!

We'll be at Mary Holland Park in Bartow, FL. Pics will be on the web site sometime after the event. <http://www.qsl.net/k4fb>

73
Paul K4FB

Date: Wed, 22 Aug 2001 01:46:59 -0400
From: Pete Burbank <plburbank@kih.net>
To: qrp-1@lehigh.edu
Subject: [105426] Cub Fox Hunts
Message-ID: <5.0.2.1.0.20010822013903.00ad2ba0@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

A great job tonite by Mike and Jerry! QSB but solid signals here in the

Blugrass.

Lots of hounds with loud signals and courteous operation.

Tnx to ALL!.....including the Propagation Fairy.

73 Pete NV4V

Date: Wed, 22 Aug 2001 02:12:52 -0400

From: Pete Burbank <plburbank@kih.net>

To: w0mc@club-pre.org, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [105427] Re: W0MC CUB FOX Preliminary Log

Message-ID: <5.0.2.1.0.20010822020424.00ab5890@KIH.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 10:29 PM 8/21/2001 -0600, Jerry McCollom wrote:

>Hounds,

>

>Well, tough going again on 20. Sounds like the band was long with plenty of

>QSB. I could tell there were many of you in the noise, but I had trouble

>picking out calls. Looks like I bagged 25 pelts. Here's the preliminary

>log, please correct or fill as needed!

>

>(PS -- Kudos to my son Tony for being my log keeper for the first 20 minutes

>of the hunt! It's pretty good for an 11 year old to decode bursts of

>information in the form of grunts and hand gestures from a

>deeply-concentrating Dad :-)

>

>Thanks & 72,

>

>Jerry

>W0MC

>snip

JerryKudos to you and Tony! He must be a neat son and you must be
doing the right

things in his regard. I applaud both of you!

Pete NV4V

Date: Wed, 22 Aug 2001 12:34:23 +0100

From: "Tony Fishpool" <tony@g4wif.fsnet.co.uk>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [105428] Re: grid-leak bias

Message-ID: <003c01c12afe\$892be6a0\$301987d9@duron>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Charles,
I kind of remember it differently but it was over 20 years ago I last
played with these things so I am willing to stand corrected.

Isn't the DC bias derived from the fact that the cathode is raised above
zero volts by the cathode resistor and is therefore positive with
respect to the grid. Why? because the grid isn't drawing any current,
and therefore even though the grid resistor is fairly large, there isn't
any volts dropped across it and is therefore at zero volts - but more
importantly, negative with respect to the cathode. (positive w.r.t. the
cathode being a bad thing because it then becomes an anode!)

You make sure that the bias point doesn't change with an AC input by
adding a capacitor across the cathode resistor.

<groan!> This was all too long ago :-)

Kind regards
Tony - G4WIF

----- Original Message -----
From: <W2SH@aol.com>

> Dave,
>
> This was a useful tutorial.
>
> Trusting only my memory, and without
> taking the time to consult any written
> references, I think that with grid leak bias
> the voltage is developed from
> the driving power across the grid resistor,
> whereas the voltage developed
> (usually across several megohms, as you
> point out) by electrons striking the
> grid on their way to the plate is called
> contact potential bias.

Date: Wed, 22 Aug 2001 04:53:12 -0700
From: "Mike Morrell" <morrellm@ameritech.net>
To: qrp-1@lehigh.edu
Subject: [105429] Norcal 20 questions Redux part 2
Message-ID: <220801234.17562@webbox.com>
Mime-Version: 1.0
Content-Type: text/plain

Tnx to all for helping me resolve my questions regarding the pot. fitting etc. The main problem was that the " detent" pot supplied had round, solder lugs (not pins). This required some rebending/cutting to allow the pot to sit into the hole pattern on the PCB. Further I was making the fitting of my 10 turn Bourns pot way too difficult. One I realized this, everything fits nicely, components are now insertable, and the front panel only required the enlargement of the tune hole to allow passage of the larger ferrule on the 10t pot. Again , tnx to all.

Lastly, are there any " must do " mods to this rig? If so, where can I get them from ?

Regards,

Mike - K8KE

Date: Wed, 22 Aug 2001 09:29:00 -0400
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [105430] Re: A bit OT -- picking a (rare) grid square?
Message-ID: <125490A005E3D3118C9C00805FC743CC027E2F13@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

FM39 is quite rare--but you need a boat.

FN24 is also quite rare--does anyone know if the fire tower on Mt Adams is still in good shape?

A shame to hike all that distance...

FN22/FN21 You can do quite well from Slide Mountain with QRP gear, though

these grids
are only moderately rare. The elevation helps.

73--Zack W1VT

BTW--I find the microwave bands actually work better with QRP than 2M for long distance
troposcatter--I worked Mt Washington NH (100mW) and Mt Mansfield VT(SSB) from the
CT shoreline with 3 watts to an 18" DSS dish. I heard W3IP in Md with 200 mW but he
was just too weak to copy.

Date: Wed, 22 Aug 2001 09:35:19 -0400
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: neqrp@jonal.net, qrp-1@Lehigh.EDU
Subject: [105431] Antenna HELP
Message-ID: <0F594B5B98.D17EC815-0N85256AA8.005BB1E9@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

As net control for the NEQRP SSB NET, I consistently get "harassed" about my poor signal. I am feeding a Carolina 40 meter windom with Radio Shack coax. The antenna is in my attic. The ends are bent in different directions because the attic is not long enough. Please no comments about my present set-up because it has served me well for the last several years.

I would like to put a better signal out as well as receive better. So I am asking the antenna "gurus" for help.

My environment is:

1. No antenna in front yard.
2. House is 35 feet high.
3. backyard from house to property line is 22 feet.
4. Property width is 40 feet.
5. 35 feet from back of house is a wooded area with trees 30 feet tall.
6. No town restriction for backyard installations.

Thank all in advance.

Ron - N1ZSW

Date: Wed, 22 Aug 2001 09:50:57 -0400
From: "Hartwell, Martin E, NLCIO" <mehartwell@att.com>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [105432] For sale
Message-ID: <CE96E7BD5D14DE4DB6FCEA40EA05517E037296@OCCLUST01EVS1.ugd.att.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi all

I still have a mint condition Norcal 20 built with keyer and some mods included. Full documentation.
The outside of the top is covered with wood grain contact paper. The front and rear are printed, glued on then covered with clear cover. Ten turn pot for tuning.

Asking \$125.00 and I ship to conus.

Marty Hartwell

kd8bj

Date: Wed, 22 Aug 2001 09:54:21 -0400
From: "Ken Simpson, W8EK" <W8EK@fdt.net>
To: "QRP List" <qrp-l@lehigh.edu>
Subject: [105433] Antenna books, ARRL handbooks, Callbooks, etc. FS
Message-ID: <020201c12b11\$f5195100\$5791d4d1@toshiba>

For sale:

All are in good condition, unless noted otherwise.

1974, 13th edition, ARRL antenna Book - \$ 10
1982, 14th edition, ARRL Antenna Book - \$ 10

ARRL Handbooks For Sale:

1969 - \$ 9
1970 - cover slightly faded - \$ 8
1976 - small cut in cover - \$ 8
1982 - \$ 8
1985 - looks almost like new - \$ 10

Also, U.S. (North American) Callbooks:

1980 - \$ 12

1988 - \$ 9

1990 - \$ 9

1992 - almost like new - \$ 10

Other ARRL books:

Understanding Amateur Radio, 1971,
2nd edition, small format, \$ 7

ARRL Radio Amateur's Operating Manual
(smaller 6 x 9 inch format) - 2nd edition
1969 - \$ 6

ARRL Radio Amateur's Operating Manual
(small format) - 3rd edition - 1972 - \$ 6

ARRL Ham Radio Operating Guide - first edition
1976 - \$ 8

Solid State Design for the Radio Amateur
ARRL - First Edition - 1977 - \$ 12

Prices do not include shipping from Florida.

Thanks.

73,

Ken, W8EK

Ken Simpson
E-mail to W8EK@fdt.net or W8EK@netzzero.com
Voice Phone (352) 732-8400

Date: Wed, 22 Aug 2001 10:04:56 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [105434] Operating Handbook
Message-ID: <24.182b9b28.28b51608@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I have not seen an ARRL operating handbook newer than mid 1980's and was wondering if the newer ones are a good reference to have? Does it address a lot of the cw and QRP procedures that are banded around here? Contesting? I have not seen it mentioned or referred to much if at all on the list. Alan KB7MBI

Date: Wed, 22 Aug 2001 07:15:34 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [105435] Summits on the Air?
Message-ID: <F197YIgoFT3kMUVfNIJ0000d54c@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I found this to be interesting:

<http://www.qsl.net/ars-eu/proposed.html>

73 John K7FD

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Wed, 22 Aug 2001 10:28:26 -0400
From: Pete Burbank <plburbank@kih.net>
To: morrellm@ameritech.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105436] Re: Norcal 20 questions Redux part 2
Message-ID: <5.0.2.1.0.20010822100303.00ab4ec0@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 04:53 AM 8/22/2001 -0700, Mike Morrell wrote:

>Tnx to all for helping me resolve my questions regarding the
>pot. fitting etc. The main problem was that the " detent" pot
>supplied had round, solder lugs (not pins). This required some
>rebending/cutting to allow the pot to sit into the hole pattern
>on the PCB. Further I was making the fitting of my 10 turn Bourns
>pot way too difficult. One I realized this, everything fits
>nicely, components are now insertable, and the front panel only
>required the enlargement of the tune hole to allow passage of
>the larger ferrule on the 10t pot. Again , tnx to all.

>

>Lastly, are there any " must do " mods to this rig? If so, where
>can I get them from ?

>

>Regards,

>

>Mike - K8KE

Mike,

Larry East W1HUE had a lot of info at <http://www.qsl.net/mnqrp/norcal20> .

I had trouble with the pushbuttons and replaced them with some from my junkbox.

Sri no part number as they were military surplus but perhaps made by Oak.

I snagged a few foxes with the rig operating portable using a 1/4 wave vertical
with about 1000 feet of farm fence for the ground. Dave Fifield had some mods
at his website also.

73 Pete NV4V

Date: Wed, 22 Aug 2001 10:37:57 -0400

From: John R Kirby <n3aaz-qrp@juno.com>

To: qrp-1@Lehigh.EDU

Subject: [105437] QRPp Summer Issue Up For Grabbs

Message-ID: <20010822.103904.-219179.0.n3aaz-qrp@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Summer 2001 QRPp issue up for grabbs (free and I pay postage).

I am thinking of a number between one and one thousand,
enciphered here for our safety:

TWRRD

UVWZZ

DGMDU

SDJMJ

ZDNHB

Guess the closest and the QRPp Summer 2001 issue is yours.

Yes, I will wait a week or so to allow digest users a fair chance.

72,
John
N3AAZ
FM 19 xa

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<http://dl.www.juno.com/get/tagj>.

Date: Wed, 22 Aug 2001 08:43:07 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Tony Fishpool <tony@g4wif.fsnet.co.uk>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105438] Re: grid-leak bias
Message-ID: <Pine.LNX.4.33.0108220840370.7357-1000000@localhost.localdomain>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I think the operative word here, is who cares? Perhaps someone who needs 25 KW of power, but that's not QRP....:-) I learned about tubes in 1959 but when I started working they handed me transistors like the 2n44 and said make it work with these.

On Wed, 22 Aug 2001, Tony Fishpool wrote:

> Charles,
> I kind of remember it differently but it was over 20 years ago I last
> played with these things so I am willing to stand corrected.
>
> Isn't the DC bias derived from the fact that the cathode is raised above
> zero volts by the cathode resistor and is therefore positive with
> respect to the grid. Why? because the grid isn't drawing any current,
> and therefore even though the grid resistor is fairly large, there isn't
> any volts dropped across it and is therefore at zero volts - but more
> importantly, negative with respect to the cathode. (positive w.r.t. the
> cathode being a bad thing because it then becomes an anode!)

> You make sure that the bias point doesn't change with an AC input by
> adding a capacitor across the cathode resistor.

>

> <groan!> This was all too long ago :-)

>

> Kind regards

> Tony - G4WIF

>

>

> ----- Original Message -----

> From: <W2SH@aol.com>

>

>

> > Dave,

> >

> > This was a useful tutorial.

> >

> > Trusting only my memory, and without
> > taking the time to consult any written
> > references, I think that with grid leak bias
> > the voltage is developed from
> > the driving power across the grid resistor,
> > whereas the voltage developed
> > (usually across several megohms, as you
> > point out) by electrons striking the
> > grid on their way to the plate is called
> > contact potential bias.

>

>

>

>

>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Wed, 22 Aug 2001 08:45:32 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>

To: Ronald A Pfeiffer <Ronald_A_Pfeiffer@raytheon.com>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [105439] Re: Antenna HELP

Message-ID: <Pine.LNX.4.33.0108220845090.7357-1000000@localhost.localdomain>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

What frequency is the net on?

On Wed, 22 Aug 2001, Ronald A Pfeiffer wrote:

> As net control for the NEQRP SSB NET, I consistently
> get "harassed" about my poor signal. I am feeding
> a Carolina 40 meter window with Radio Shack coax. The antenna
> is in my attic. The ends are bent in different directions because
> the attic is not long enough. Please no comments about my present
> set-up because it has served me well for the last several years.
>
> I would like to put a better signal out as well as receive better. So I
> am asking the antenna "gurus" for help.
>
> My environment is:
> 1. No antenna in front yard.
> 2. House is 35 feet high.
> 3. backyard from house to property line is 22 feet.
> 4. Property width is 40 feet.
> 5. 35 feet from back of house is a wooded area with trees
> 30 feet tall.
> 6. No town restriction for backyard installations.
>
> Thank all in advance.
>
> Ron - N1ZSW
>
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Wed, 22 Aug 2001 10:45:13 -0400
From: Pete Burbank <plburbank@kih.net>
To: qrp-l@lehigh.edu
Subject: [105440] re. NC-20 mods
Message-ID: <5.0.2.1.0.20010822104107.00acba30@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Ooops

The URL I mentioned for Larry East doesn't seem to work. Maybe someone else can provide a better one.

Pete NV4V

Date: Wed, 22 Aug 2001 15:46:09 +0100
From: "Tony Fishpool" <tony@g4wif.fsnet.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105441] Re: grid-leak bias
Message-ID: <004101c12b19\$35d1c040\$2c0287d9@duron>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

From: "Karl F. Larsen" <k5di@zianet.com>
> I think the operative word here, is who cares?

Well Karl, I suppose the person who posted the original question. QRP doesn't have to be solid state.

With regard to my posting about bias, I rather suspect I was thinking of something else. The term "auto cathode bias" came to mind after I posted to QRP-L. Well that's always the way :-)

I prefer solid state myself. None of that "Chassis-bashing" and cutting holes for valves (tubes to you folk on the othger side of the pond).

72/3
Tony - G4WIF

Date: Wed, 22 Aug 2001 11:02:17 -0400
From: "Ronald C. McConnell" <rcmcc@earthlink.net>
To: "QRP-L" <qrp-l@lehigh.edu>, <ke3fl@yahoo.com>
Cc: <dave@redhotradio.com>, <w2iol@arrl.net>
Subject: [105442] Re: Got one - distance calculator
Message-ID: <000001c12b1b\$703de360\$3316a441@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi, Phil,

I'm catching up on qrp-l reading.

<http://www.indo.com/distance>

that you found is the best web great
circle calculator of which I am aware.
There are other good ones like Ed Williams's

<http://www.best.com/~williams/gccalc.htm>

For the best introduction to great circle
navigation with worked out examples, see Ed's

<http://www.best.com/~williams/avform.htm>

If you want to "roll your own" with logging on,
my freeware great circle, lat&long/grid, MUF,
miles/Watt, etc.,
DOS command line program GCGC

<http://home.adelphia.net/~nj2dx/hoarc/gcgc9900.zip>

may do what you want. It works in a DOS window,
and on HP 95 and Poquet PC DOS palmtops.
It has the US NGS forward and inverse
ellipsoidal earth model routines built in.
My main addition is a more usable interface.
(The filename is "9900," but is actually
the 2001/01 0r "0101" version.)

Unzip it into a new directory.
Skim file "read1st.txt" and "d2gread.txt."

Then a DOS command (in a DOS window) in a format like

g lat1 long1 lat2 long2

or with real #s (degrees and minutes here for example)

g 40 46.9 n 74 41.4 w 53.5 n 0 e

will calculate between my house and (near) London.
The lat/long/grid input format is pretty forgiving.

```
40 46 54 n 74 41 24 w
w 74.6900 n 40.7817
n 40.7817 w 74 41 24
fn20ps
etc. all work
```

If you store your lat/long as the first
(or only) line of ASCII text file "home.dat"
using Notepad or other text editor, then

```
g + Cyprus p 3.2
```

will work between your house and Levkosia
and calculate miles/Watt for 3.2 Watts.

For forward calculations a DOS input line like

```
g b 127.3 d 675.4
```

will calculate the lat/long from your coordinates
in home.dat for a point at a true bearing
of 127.3 degrees and 675.4 miles.

```
g 675.4 k 127.3 d
```

also works. (Use "k" instead of "d" for km)

GCGC also calculates magnetic bearings using
the World Magnetic Model with 2000-2005 parameters.

I have plans for a Linux version of GCGC.
The source compiles. I just need to translate
the "g.bat" command into bash syntax
when I can get access to a Linux machine again.

Have fun.

Cheers, 73,

Ron McConnell
w2iol@arrl.net

Date: Wed, 22 Aug 2001 15:44:51
From: "Brad Hernlem" <alihernlem@hotmail.com>

To: qrp-1@lehigh.edu
Subject: [105443] Re: grid-leak bias
Message-ID: <F86Wgtc2S6AATiyhGvD000116a1@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Subject: Re: grid-leak bias
From: Karl F. Larsen (k5di@zianet.com)

>I think the operative word here, is who cares? Perhaps someone who needs
>25 KW of power, but that's not QRP...:-)

Well, I am one that cares (great tutorial, David!) and
there are a whole lot of others on the Glowbugs list
(and other lists dealing with boatanchor, military and
similar technology). Grid-leak bias isn't restricted
to QRO applications and certainly finds use in
receivers (which dang well better be QRP :-)

Info on the Glowbugs list can be found at the
following links, for example:

<http://webhome.idirect.com/~griffith/gb.htm>
<http://home.cfl.rr.com/happysurfer/glowbugs.htm>

Brad

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Wed, 22 Aug 2001 13:12:21 -0400
From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105444] RE: re. NC-20 mods (link for Larry East's mods)
Message-ID: <GCECIJFJPOHMCKACOA0BEEHDCMAA.jakecart@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Pete -- NV4V:

I just tried this link and it works OK -- I think the ".htm" was the
difference.

<http://www.qsl.net/mnqrp/norcal20.htm>

I had not seen the mods before -- I'm printing them out and putting them in my NorCal20 box -- I'll get to it some day :-)

Thanks and 73,

Jake -- N4UY

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Pete Burbank
Sent: Wednesday, August 22, 2001 10:45 AM
To: Low Power Amateur Radio Discussion
Subject: re. NC-20 mods

Ooops

The URL I mentioned for Larry East doesn't seem to work. Maybe someone else can provide a better one.

Pete NV4V

Date: Wed, 22 Aug 2001 09:17:34 -0800
From: Jim Larsen AL7FS <AL7FS@pobox.alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [105445] Re: re. NC-20 mods
Message-ID: <3B83E92E.F86E94A3@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Go to <http://www.qsl.net/mnqrp/>

Then go to PROJECTS, CIRCUITS, HINTS AND KINKS
<http://www.qsl.net/mnqrp/projects.htm> or direct

Then to NorCal 20 Mods by Larry East, W1HUE June 1999
<http://www.qsl.net/mnqrp/norcal20.htm> or direct

I went up the line on the URL to the MN QRP site and then back down to find it.

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska
(BP51cc) - 61.101 North, 149.824 West
mailto:al7fs@arrl.net - http://www.qsl.net/al7fs/

Pete Burbank wrote:

>
> Ooops
> The URL I mentioned for Larry East doesn't seem to work. Maybe someone
> else can provide a better one.
> Pete NV4V

Date: Wed, 22 Aug 2001 13:27:33 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: QRP-L@lehigh.edu, dfischer@usol.com
Subject: [105446] A request for information.
Message-ID: <3B83EB85.BBF23DBE@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Some time ago we had a thread on the Popular Electronics WPE
certificates. Now the Hallicrafters list is trying to set up a program
like it. They are aware of the copyright problems. They have asked me
to ask you if you have an original certificate or number to please write
to Duane Fischer at: <dfischer@usol.com>

Thanks, and 73

Date: Wed, 22 Aug 2001 10:27:37 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "QRP-L Forum (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [105447] SW Division ARRL Convention QRP Form
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F04B7731C@hq-expo2.filenet.com>

Just a word to let you know that the QRP forum at the SW Division convention
will be a good one. We have seven excellent speakers and some great topics.
There has been a change in the lineup, however. Note that Elecraft's Eric
Swartz will reprise the talk he did at the Huntsville Hamfest on "High
Performance Receiver Design" that met with rave reviews. On Sunday, Wayne,
N6KR, will be giving a 10:00 talk on kit building to the general convention
and I am sure it will be worth attending as well. Who knows? Maybe we can
all lurk in the crowd and pick off unsuspecting attendees and convert them
to avowed QRPers!

Doug, KI6DS, will be giving the opening talk and Jim, WA6GER, will be in attendance. Ed Hare, W1RFI, is bringing the premier QRP icon -- original Tuna Tin 2 -- and the Central Connecticut QRP club W1FB call sign. So plan on attending and take a turn at the key.

..plus the usual Friday and Saturday night get-togethers, a building contest (bring those projects you've been doing for PacifiCon down and give 'em a trial run), and all around good times. For registration and other information, check out the Convention website at <http://www.qsl.net/iecaro> or <http://www.qsl.net/arrl-2001swdc>.

See you there!

Current line-up of talks:

"QRP - putting the fun back in Ham Radio"
Doug Hendricks, KI6DS

"Building Simple Baluns that Work"
Jim "Dr. Megacycle"Duffey, KK6MC/5

"Manhattan construction and the MH 101 project"
Chuck Adams, K7QO

"High Performance Receiver Design"
Eric Swartz, WA6HHQ

"Reverse RFI - Interference to Amateur Radio Equipment"
Ed Hare, W1RFI

"Fun on the Waterfall - Operating PSK-31"
Barry Geipel, AD6HR

"Hamming in Hotel Rooms"
Vern Wright, W6MMA

Date: Wed, 22 Aug 2001 14:00:33 -0400
From: Ron Majewski <majewski@erim-int.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [105448] FOX: W8RU Hunt #16 Final Log
Message-ID: <3B83F341.29E2B062@erim-int.com>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Here's the final log with the corrections I've received and the duplicates removed. The final count was 61 QSOs. Thanks everyone and 72/3!

Ron (W8RU).

W8RU Final Log
Hunt #16, 16 August 2001

02:00	K4BYF	559	FL	JACK	4W
02:01	W6ABC	599	CA	JACK	5W
02:02	K5E0A	559	LA	WAYNE	5W
02:03	KB7WW	559	OR	ART	5W
02:03	N1TP	559	FL	TOM	5W
02:04	K5JHP	559	TX	BILL	5W
02:05	K0EVZ	599	ND	DOC	5W
02:05	K5DW	559	TX	DON	5W
02:06	K5YU	559	TX	HARV	5W
02:06	N1FN	559	CO	ET	5W
02:07	VE6JAZ	559	AB	ROB	5W
02:08	WA8NTA	559	CO	DICK	5W
02:09	K4FB	559	FL	PAUL	5W
02:09	K5DI	599	NM	KARL	5W
02:10	W9UQB/7	559	AZ	MIKE	5W
02:11	VA6RF	559	AB	EARL	5W
02:11	VE5RC	599	SK	BRUCE	5W
02:12	N0TK	579	CO	DAN	5W
02:13	KE6RS	559	CA	RON	5W
02:13	NK0E	559	CO	DAVE	5W
02:14	NQ7X	559	AZ	FLOYD	5W
02:15	K5LN	559	TX	BILL	5W
02:15	N5IW	599	TX	DAVE	5W
02:16	K5BGB	579	TX	ROD	5W
02:18	N0DSP	599	CO	TOM	5W
02:20	N6WG	559	CA	BOB	5W
02:21	K0FRP	579	CO	AL	5W
02:23	AA7XA	559	OR	FRANK	5W
02:23	VE6EX	559	AB	DAN	5W
02:24	K5AAR	559	OK	DON	5W
02:25	N5TW	559	TX	TOM	5W
02:26	K4TJD	559	GA	TOM	5W
02:27	NX8C	559	MI	NEIL	5W
02:28	AD6JV	559	CA	BILL	5W
02:31	N5GJQ	579	LA	MIKE	5W
02:31	N2WW	559	CO	LARRY	5W

02:32	N4ROA	559	VA	DAN	5W
02:35	W5YR	559	TX	GEORGE	5W
02:36	WA5BDU	559	AR	NICK	4W
02:38	K8CV	559	MI	WALT	5W
02:39	KM5VY	559	NM	TOM	5W
02:41	AG0T	559	ND	TODD	5W
02:42	WA7SPY	559	CA	GLENN	5W
02:43	WA9TZE	559	WI	JIM	5W
02:46	W9XU	559	WI	RON	5W
02:47	N9AW	559	WI	JERRY	5W
02:49	W4NJK	229	CA	CHARLIE	5W
02:51	KC1FB	559	CT	JIM	3W
02:54	AC6UV	559	CA	GODY	5W
02:56	W0CH	549	MO	DAVE	5W
02:57	W5USJ	559	TX	CHUCK	5W
03:05	K4MF	449	FL	GARY	5W
03:06	W0ZA	559	CO	GREG	5W
03:12	KI0II	559	CO	RON	1W
03:14	N5JI	449	TX	RICH	5W
03:16	AA7EQ	559	AZ	BOB	5W
03:21	N1EU	339	NY	BARRY	5W
03:27	KA9UDA	559	CA	ROGER	75W
03:42	AL7FS	559	AK	JIM	5W
03:59	KJ0C	559	MO	JIM	5W
04:00	W8RU			fox	

Date: Wed, 22 Aug 2001 18:07:54
 From: "Brad Hernlem" <alihernlem@hotmail.com>
 To: qrp-1@lehigh.edu
 Subject: [105449] UWB
 Message-ID: <F32VC5VCtLm52uiGyzK0001196b@hotmail.com>
 Mime-Version: 1.0
 Content-Type: text/plain; format=flowed

This is probably a "duh" question but are any hams experimenting with Ultra-Wideband technology? Or is this sort of anathema to the idea of using the bands strictly as intended?

Brad

 Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Wed, 22 Aug 2001 13:14:53 -0500
From: "Rob Matherly" <kc0bom@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105450] MRX-40 Info?
Message-ID: <019101c12b36\$58755f40\$7f11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All;

I am currently working on a 10mW transmitter and am thinking of pairing it with an MRX-40 receiver I got from the arrl/tis qrp pdf page. Has anyone built one of these, and if so, how well does it work? I think I may have heard them mentioned here before, so maybe I'll luck out. :-)

72/73

Rob, kc0bom

-My version of the Big Bang Theory:
God snapped his fingers, and BANG! It happened.

=====
FPQrp #330; Qrp-L #2346; Live-Wire #442; ICQ #114690148
=====

I hate Jeff Gordon and the New York Yankees and I'm proud of it!
=====

Visit my ham radio / Mystery Science Theater 3000 website!
<http://www.geocities.com/kc0bom>
Go see it today!

=====
Are you a ham near the Lake Rathbun Iowa area? Join the club!
<http://clubs.yahoo.com/clubs/rathbunareahams>
=====

Use Drake ham radio equipment? Check out my group!
<http://groups.yahoo.com/group/drake-radio-operators>
=====

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Wed, 22 Aug 2001 14:00:31 -0500

From: "Rob Matherly" <kc0bom@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [105451] Iron on schematics
Message-ID: <01be01c12b3c\$ba4990a0\$7f11a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here's another question -

Will those Iron on t-shirt things you can put through your printer work on pc board for layouts too?

72/73

Rob, kc0bom

-My version of the Big Bang Theory:
God snapped his fingers, and BANG! It happened.

=====
FPQrp #330; Qrp-L #2346; Live-Wire #442; ICQ #114690148
=====

I hate Jeff Gordon and the New York Yankees and I'm proud of it!

=====
Visit my ham radio / Mystery Science Theater 3000 website!
<http://www.geocities.com/kc0bom>
Go see it today!

=====
Are you a ham near the Lake Rathbun Iowa area? Join the club!
<http://clubs.yahoo.com/clubs/rathbunareahams>

=====
Use Drake ham radio equipment? Check out my group!
<http://groups.yahoo.com/group/drake-radio-operators>
=====

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Wed, 22 Aug 2001 15:03:51 -0400
From: Pete Burbank <plburbank@kih.net>
To: jakecart@ix.netcom.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [105452] RE: re. NC-20 mods (link for Larry East's mods)

Message-ID: <5.0.2.1.0.20010822144030.00acca60@KIH.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 01:12 PM 8/22/2001 -0400, John L. \"Jake\" Carter wrote:

>Pete -- NV4V:

>

>I just tried this link and it works OK -- I think the ".htm" was the
>difference.

>

><http://www.qsl.net/mnqrp/norcal20.htm>

>

>I had not seen the mods before -- I'm printing them out and putting them in
>my NorCal20 box -- I'll get to it some day :-)

>

>Thanks and 73,

>

>Jake -- N4UY

Thanks Jake,

I'm a bit of a compu-nerd regarding addresses HI!.

The NC-20 is really an elegant rig and I was especially impressed with the
split case

and fine machine work....not to mention the fine electronic design. A real
keeper!!!!

73 Pete NV4V

Date: Wed, 22 Aug 2001 13:18:48 -0600

From: William R Colbert <w5xe@juno.com>

To: ARDUJENSKI@aol.com, qrp-l@lehigh.edu

Subject: [105453] Re: Operating Handbook

Message-ID: <20010822.131849.-302349.2.w5xe@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

The last one you are probably talking about is a page size
with a maroon cover and about half inch thick. The last one
I had which was the 1996 version, was almost the size of
the ARRL Handbook, and embellishes the operating chapters
of the handbook. It starts with basic stuff, has some qrp info,
shortwave listening, certificate hunting, maps, satellites,
gray-shadow operating, country lists, itu lists, and I forget
the rest. I am sure the new version has all of that and

more - it is an excellent reference book and I have used it as much as the handbook and the antenna handbooks.

73
Ray

"Politicians are like nappies. Both should be changed regularly -- and for the same reason"
"Scotsman - Scotsman's Diary 12/97"
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M SOC#78
fp #111 ARCI-5784 NCT2R El Paso, (FAR WEST) TEXAS

Date: Wed, 22 Aug 2001 14:29:42 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [105454] Re: grid-leak bias
Message-ID: <017701c12b41\$04e0e240\$620b4d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Actually grid leak bias is used in QRP stuff too. For example the regenerative receiver (as well as most oscillators) used grid leak bias. This is very simply caused when the small positive voltage swings are rectified by the grid-cathode section of the tube which acts like a diode. The currents produced by this rectified voltage produce the bias voltage across the grid leak resistor.

For example in the regenerative receiver a very large resistor in the megohm range is used to produce bias with weak signals. Going the other way in the QRP tube TX that I kitted for the NoGa QRP club last year ("The NoGa Twin Tube 80" see QQ October 2000) I adjusted the grid resistor to a lower value to decrease bias till it increased the plate current to where it needed to be to produce the desired output power. All that is required is a knowledge of ohms law and the willingness to experiment.

Yes there still is a lot of interest in tube experimenting. Not all of the good performance of today's solid state gear is due to using solid state devices. When a lot of today's new circuit techniques are applied to the older devices such as vacuum tubes their performance will improve considerably. Besides its all fun and I play with everything from SMT to tubes. I am having too much fun to consider the pedigree of my toys.

Mike Branca W3IRZ in Conyers Georgia

Date: Wed, 22 Aug 2001 15:40:37 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <kc0bom@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105455] Re: Iron on schematics
Message-ID: <025b01c12b42\$55837900\$6b01a8c0@INSYDENT>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: Rob Matherly <kc0bom@yahoo.com>

> Here's another question -
>
> Will those Iron on t-shirt things you can put through your printer
work on
> pc board for layouts too?
>
> 72/73
> Rob, kc0bom

They actually make a kit to do just that. I've seen it advertised in
I think Circuit Cellar Ink magazine.

But just as good is doing the layout onto clear transparencies, then
laying the transparency on some photo-sensitized PCB.

Mike

Date: Wed, 22 Aug 2001 20:30:21 -0000
From: tf3vst@vortex.is (Villi Idunni)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105456] RE: Iron on schematics
Message-ID: <MABBIDG00GFJFPNLPCNDEEEPCGAA.tf3vst@vortex.is>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have been using a film from Maplin in the UK which is just UFB for this. It is a special film for laser printers and then the layout is just ironed on the board with a regular household hot iron (my YL gave me an old one just for the hobby, hihi).

The toner in the laser printer is fine for protection in the etching and this makes the finest PCBs. It can also been used with a Xerox copier, but the picture has to be mirrored, of course.

It is not cheap, but gives first class job.

Perhaps it is possible to use just an ordinary xerox paper for the transfer??

What about disconnecting the fuser unit in the laser printer and then iron it on the board??

Just an idea,

72, de Villi TF3VS

Date: Wed, 22 Aug 2001 20:35:53 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: kc0bom@yahoo.com, qrp-1@Lehigh.EDU
Subject: [105457] Re: Iron on schematics
Message-ID: <F82ArGvnCjnZS08i7M40001194a@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "Rob Matherly" <kc0bom@yahoo.com>
>Reply-To: kc0bom@yahoo.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Iron on schematics
>Date: Wed, 22 Aug 2001 14:00:31 -0500
>
>Here's another question -
>
>Will those Iron on t-shirt things you can put through your printer work on
>pc board for layouts too?

I've tried the stuff. It doesn't work - just leaves a sticky mess.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Wed, 22 Aug 2001 13:56:23 -0700

From: "Bob Tellefsen" <n6wg@earthlink.net>

To: <qrp-1@Lehigh.EDU>

Subject: [105458] Re: MRX-40 Info?

Message-ID: <MABBJ0EABOILMKCJCLFCEEDJCKAA.n6wg@earthlink.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Rob

A couple of years ago we built the TT2 and the MRX40 for a little contest at Pacificon.

Afterwards, at home, I worked a station in Kentucky using this pair from here on San Francisco Bay. I was pretty pumped with that, considering both the TX and RX were pretty QRPP.

73, Bob N6WG

Date: Wed, 22 Aug 2001 14:59:56 -0600 (MDT)

From: "Paul Harden, NA5N" <na5n@rt66.com>

To: qrp-1@lehigh.edu

Subject: [105459] 2N2/40 Book: Errors & corrections

Message-ID: <Pine.SUN.4.10.10108221416520.7197-1000000@shell.rt66.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

We've mailed out about 20 2N2/40 books so far this week for those getting ready to build the 2N2/40. However, I failed to enclose an addendum sheet with the noted errors detected by the designer (Jim K8IQY), the drawing guy (me) and a few builders. So here they are for anyone that wishes to update their 2N2/40 book, or the original Winter 1998 QRPP construction article. Page numbers refers to either version.

PEN AND INK CHANGES TO THE 2N2/40 BOOK OR WINTER 1998 QRPP

1. T-R SWITCH, page 17.

*Missing ID: the .01uF cap on the KEY jack is C68

*4.7uF C67 is omitted from the drawing. The (-) lead goes to ground and the (+) lead goes to the pad with R60, C66, R59.

2. THE VFO, PAGE 19

*C7 missing from drawing. Add 0.2uF C7 from the pad with R5/"VCC4"/"VCC5" wires to ground.

3. FRONT END, page 23.

*Wire "4" from toroid T1 missing from drawing. Draw the wire from the toroid to the pad with TC1/C1.

4. AUDIO AMPLIFIER, page 31

*Orientation of Q12 is incorrectly drawn.

Orientation is the same as Q13, that is, the collector goes to T10 and the emitter to the pad with R38.

*The electrolytic from above pad (R38/Q12 emitter) is C40, not C38.

5. TX AMPLIFIER, page 35

*Toroidal transformers T12 and T13 are wound on T37-2 cores (not FT37-2 as shown on the drawing)

6. THE PA STAGE, page 37

*TX driver transistor Q17 should be a T0-18 (metal can) 2N2222 with a heat sink for best performance.

*Three capacitors are mislabeled:

Cap from Q20 to ground should be C64 (not C62)

Cap from Q19 to ground should be C62 (not C61)

Cap from "W17" antenna to ground should be C65 (not C56)

If you notice anything else from your building experience, please let me know.

GL es 72, Paul NA5N

Date: Wed, 22 Aug 2001 16:11:06 -0500
From: "Rob Matherly" <kc0bom@yahoo.com>

To: "Leon Heller" <leon_heller@hotmail.com>, <qrp-1@lehigh.edu>
Subject: [105460] Re: Iron on schematics
Message-ID: <002901c12b4e\$ef7802b20\$8511a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well I guess that answers that question!

72/73
Rob, kc0bom

> I've tried the stuff. It doesn't work - just leaves a sticky mess.

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Wed, 22 Aug 2001 17:14:19 -0400
From: "dave dabay" <kd3pc@mindspring.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>,
<tentec@contesting.com>
Subject: [105461] TenTec Century 21 for sale
Message-ID: <002f01c12b4f\$727ba0c0\$b5a0fea9@shadow>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gents

I have a nice Century 21 digital for sale. Was purchased from TenTec a while back as used gear. Complete with a copy of the manual. Shipping at cost. Please make offer.

dave dabay

Date: Wed, 22 Aug 2001 17:21:58 -0400

From: "kw3u@warwick.net" <kw3u@warwick.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [105462] tube pwr supply info needed
Message-ID: <3B842276.3D7BC6E9@warwick.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all;

Managed to drag home a nice heath hg-10 vfo with manual, to feed my johnson adventurer and drake 2nt. Need to power this critter with 110vdc and 6.3vac@2amps-so was gonna build the power supply in the manual and put it inside the vfo(lottsa room). Had the few components needed in the junkbox except for the xfmr. A quick perusal of the RS and

Jameco catalogs show nothing.. schematic shows primary 115ac and 2 secondary's

one at 110-120ac to be rectified for my dc @ 50ma or so, and the other 6.3vac for the filaments. Any help on obtaining one appreciated.

Or maybe I should look in the handbook. hi.

tnx Jim kw3u

Date: Wed, 22 Aug 2001 17:13:04 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <w3irz@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105463] Re: Resonant Antenna
Message-ID: <1010722171305.RAA06916@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/12/01 2:35 PM, Mike Branca at w3irz@att.net wrote:

>

>Also unless we are putting power into a resistor any antenna must be
>resonant.

A resistor is perfectly resonant at a large range of freuencies.

But, no, the ANTENNA need not be resonant. The Antenna SYSTEM often is, because we typically use a tuner.

> The above described 100 foot antenna is resonant on 80 thru 10
>meters.

The antenna isn't resonant, the antenna SYSTEM defined by the antenna, feedline and the tuner IS. (Or is when the tuner is properly adjusted.

> One must understand that we are talking about an antenna system
> composed of the radiating element (100 foot of wire), the open wire feed
> line and the antenna tuner. The tuner simply supplies the missing L and C
> values that the feed line and antenna need to achieve resonance.

Specifically, to achieve a conjugate match -- which results in a resonant condition (defined as an impedance Z with no imaginary component).

> When
> compared to a dipole this shortened antenna is only slightly less efficient
> on 80 meters and comparable, in energy radiated, on the higher bands.
>
> The danger in such resonant Vs non resonant antenna discussion is for the
> new hams who are presented with the idea that somehow there is radiation
> magic in a specific length of antenna. Filling the discussion with a lot of
> math further confuses the subject. Its like asking which is bigger 12 or a
> dozen.

The key to maximizing antenna radiation is minimizing loss. Energy that is not lost to heat MUST be radiated as a signal.

Some people confuse resonance with a low-loss condition. This is partly true, particularly with coax-fed antennas, since complex impedances on the coax lead to a lot more loss in the system.

But resonance is not a guarantee of low-loss. A dummy load is perfectly resonant, but also perfectly lossy.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Wed, 22 Aug 2001 17:20:07 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105464] Re: Resonant vs. Nonresonant Antenna
Message-ID: <1010722172008.RAA07500@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/12/01 7:53 AM, Karl F. Larsen at k5di@zianet.com wrote:

>What I have found in Maxwell's work

Which Maxwell? James Clerk Maxwell, or Walt Maxwell?

>is a clear indication that a

>resonant antenna, one that shows no reactive components at a feed point

>for example, will couple better to space than a random wire.

What happens if you give Mr Maxwell a 50 ohm resistor?

What happens if you give Mr Maxwell a resonant antenna made out of a plastic tube full of grains of salt? (eg a very lossy conductor)

>Says nothing

>about what direction it goes, just that more goes. Where does the power

>lost go? Heat. Power not coupled to space goes back to the feed point and

>a little is lost to $I^2 R$.

But Walt Maxwell showed that power coupled back to the feedpoint ends up BACK at the antenna in a conjugate match (less the losses in the feedline and antenna coupler).

Radiated power is a function of LOSS, not resonance. Minimizing loss maximizes radiation. With ideal materials (superconductors, transmission lines), resonance of antennas would not matter.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net

Quote: "Not within a thousand years will man ever fly!"

-- Wilbur Wright, 1901

Date: Wed, 22 Aug 2001 17:32:03 -0400

From: Kenneth Hoglund <hoglund@wfu.edu>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [105465] Operating Manual

Message-ID: <3B8424D2.EDDB838E@wfu.edu>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Gang--

I'm fortunate to have relatives in the Newington area who wanted to get me something 'useful' for a gift: The 6th ed of the Operating Manual.

Contains lots of information of a pretty basic nature, starting with SWLing, Basic Operating, Awards and running up to Digital Communications, Satellites, Traffic Handling, etc. About 408 pages of very useful information, explained in a down-to-earth style, just about right for me. Also includes a 24 page smaller-sized "Ham Desktop Reference" thing that I keep near the rig with DX callsigns, band plans, etc. Nice!

Probably if you've been at a particular form of operating for awhile, the Manual would be too basic. But if you're getting into something new, or like me are pretty new to the whole field, this is a lot less intimidating than the Handbook.

I think the latest version is the 7th ed.

Usual disclaimers apply.

73

Ken KG4FGC

Date: Wed, 22 Aug 2001 17:25:28 -0400
From: Bill Coleman <aa4lr@arrl.net>
To: <w6toy@erols.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105466] Re: Resonant vs. Nonresonant Antenna
Message-ID: <1010722172529.RAA08190@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/12/01 11:47 AM, Bruce Muscolino at w6toy@erols.com wrote:

>The work by the later Maxwell, I believe, shows that antennas will
>radiate all the power put into them.

This is Walt Maxwell, discussing the conjugate match.

>The idea of increased losses due
>to high SWR seems to be mostly false (it depends on the feedline, of
>course).

Not false. All feedlines magnify loss with high SWR. This is because the greater number of reflections travelling along the feedline. There's even equations in the ARRL handbook you can use to compute these losses.

An ideal feedline has no loss, so SWR would be inconsequential.
Unfortunately, one can't buy an ideal feedline. However, for many combinations of SWR, some feedlines have inconsequentially small losses.

>There is some feedline heating, to be sure, but a very high
>percentage of what is put in gets out! This is even true for very short
>antennas though their radiation efficiency is lower.

Again, it depends where the losses are. You can have losses in the feed,
or the matching network to the antenna, or in the antenna itself.
Minimizing losses increases radiation.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Wed, 22 Aug 2001 21:36:38
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: kw3u@warwick.net, qrp-1@Lehigh.EDU
Subject: [105467] Re: tube pwr supply info needed
Message-ID: <F263iMCIqtQvAauNjVu00011f40@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

For stability reasons, you probably do NOT want to build it in the VF0! You can probably steal power for it from the transmitter, use a dropping resistor in the B+ line if needed. If you really want to build a power supply, get 2 6.3 volt transformers ... wire one the normal way (primary winding to 120 V supply) and connect the second one's secondary (the 6.3 volt winding) to the first one's secondary. Out of the primary of the second one you will have 120 V isolated which you can rectify for the B+ on the VF0. You can get filament voltage from the first transformer's secondary.

Mike WA8BXN

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Wed, 22 Aug 2001 17:39:27 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <kc0bom@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [105468] Re: Iron on schematics
Message-ID: <001d01c12b52\$ee4e3520\$6b01a8c0@INSYDENT>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Don't be so sure!!

One person getting a mess doesn't mean everyone will have the same results.

How many times have you seen really butchered kits when the guy is supposedly an 'expert'?

Mike

> Well I guess that answers that question!
>
> Rob, kc0bom
>
> > I've tried the stuff. It doesn't work - just leaves a sticky mess.

Date: Wed, 22 Aug 2001 14:45:17 -0700
From: "Bill Jones" <kd7s@psnw.com>
To: <kw3u@warwick.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105469] Re: tube pwr supply info needed
Message-ID: <000701c12b53\$bd5838c0\$9110010a@fresno>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>From my experience in the late 1950's when I was first licensed, it is bad practice to place the power supply inside the same enclosure as the VFO unless you have a shielded enclosure made of steel. You are almost sure to induce some 60 or 120 cycle (Hz) hum on your signal.

=====

Bill Jones - <><
Sanger, California

=====

----- Original Message -----

From: <kw3u@warwick.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Wednesday, August 22, 2001 14:21 PM

Subject: tube pwr supply info needed

> Hi all;

> Managed to drag home a nice heath hg-10 vfo with manual, to
> feed my johnson adventurer and drake 2nt. Need to power this critter
> with 110vdc and 6.3vac@2amps-so was gonna build the power supply
> in the manual and put it inside the vfo(lottsa room). Had the few
> components
> needed in the junkbox except for the xfmr. A quick perusal of the RS and
>
> Jameco catalogs show nothing.. schematic shows primary 115ac and 2
> secondary's
> one at 110-120ac to be rectified for my dc @ 50ma or so, and the other
> 6.3vac for the filaments. Any help on obtaining one appreciated.
> Or maybe I should look in the handbook. hi.
> tnx Jim kw3u
>
>
>

Date: Wed, 22 Aug 2001 16:45:54 -0500

From: "Rob Matherly" <kc0bom@yahoo.com>

To: "Mike Yetsko" <myetsko@insydesw.com>, "Low Power Amateur Radio Discussion"
<qrp-l@lehigh.edu>

Subject: [105470] Re: Iron on schematics

Message-ID: <006301c12b53\$d49810a0\$8511a541@intern01>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Well, I guess that's true too. How much are the 'normal' iron-on schematic sheets, where could I find them, and how much are they? Mouser would probably have something like that, wouldn't they?

72/73

Rob, kc0bom

----- Original Message -----

From: Mike Yetsko <myetsko@insydesw.com>
To: <kc0bom@yahoo.com>; Low Power Amateur Radio Discussion
<qrp-l@Lehigh.EDU>
Sent: Wednesday, August 22, 2001 4:39 PM
Subject: Re: Iron on schematics

> Don't be so sure!!
>
> One person getting a mess doesn't mean everyone will have the
> same results.
>
> How many times have you seen really butchered kits when the guy
> is supposedly an 'expert'?
>
> Mike
>
>
>
> > Well I guess that answers that question!
> >
> > Rob, kc0bom
> >
> > > I've tried the stuff. It doesn't work - just leaves a sticky mess.
>
>

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Wed, 22 Aug 2001 18:00:44 -0400
From: "E. Roswell" <eroswell@monmouth.com>
To: qrp-l@Lehigh.EDU
Subject: [105471] RE: Iron on schematics
Message-ID: <3B842B8C.9A450408@monmouth.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>...Perhaps it is possible to use just an ordinary xerox paper for the

transfer??.....

Yes. I have an ink-jet printer, but take the reversed layout to our local copy store and make a couple Xerox copies, with good dark contrast, on the regular store copy paper. I cut the pattern to size, lay over PCB material and iron until I can see the toner taking. I set it on "linen", i.e. hottest setting, and paper is close to burning. Move it all around to ensure good contact. I usually make four small boards to ensure at least one good take. (Always reusable, just peel off, steel-wool it and start over.)

When the board is done, I lay it in a small container of water to cover. The paper after a time (half hour?) gets mushy and you can roll it off with your fingers. Where it doesn't roll easily, as between fine traces, I take a scribe or knife point and scratch it off. Then simply put it in the etching solution. I have only used this with simple layouts, not with complicated or fine lines, I don't think it would hold the resolution.

73, Ed,
K2MGM.

Date: Wed, 22 Aug 2001 22:05:38 +0000
From: "Tom Dufresne" <tdufres@hotmail.com>
To: kc0bom@yahoo.com, qrp-1@Lehigh.EDU
Subject: [105472] Re: Iron on schematics
Message-ID: <F128ZS2TRqf69aZbLAX0001566b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Rob:

I have had excellent success with a program called CIRCAD. I build my schematic via CIRCAD, then I can save it. I take the saved schematic to work on a 3.5' floppy, and use my Laser printer to print it on standard overhead transparencies. Who needs those expensive ones? Not me...

Next, place the image on a CLEAN PCB, and fire up the hot iron. I put a clean piece of paper under the iron. NEVER iron directly on the transparency! The trick here is to get the iron hot enough to transfer the toner onto the PCB from the transparency. In my experience, it usually requires quite some doing to screw this up. Biggest mistake for me has been either I didn't get the iron hot enough, or I took the heat away too soon. In either case, just put the iron right back on and do 'er again.

I always make up a few extra's, just in case. If there are any areas where the toner didn't stick as well, make sure next time use more heat or stay on it longer. You can fill in the grainy or partial areas with a black "sharpie", it won't allow the etchant to etch the copper under it. Works FB!

BTW, if you use single sided PCB (so much easier to etch!)you can make it

copper side up, or copper side down. Just make sure when ya iron it, it transfers right.

You can see some examples of what I did here
<http://home.neb.rr.com/tdufres/coder.html> Just for kicks, I also transferred a image on the "glass" side of the PCB so it kinda looked like a "real" PCB :) Loads of fun. Make sure your etchant is fresh!
Good luck!

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Wed, 22 Aug 2001 17:18:16 -0500
From: "Rob Matherly" <kc0bom@yahoo.com>
To: <qrp-1@lehigh.edu>
Subject: [105473] Re: Iron on schematics
Message-ID: <008901c12b58\$59eb6500\$8511a541@intern01>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wow! Lots of useful info! I'm getting plenty of suggestions involving laser printers and Xerox machines. Is there any way to use ink jet printers?

72/73
Rob, kc0bom

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Wed, 22 Aug 2001 18:19:24 EDT
From: W2SH@aol.com
To: kw3u@warwick.net
Cc: qrp-1@lehigh.edu
Subject: [105474] Re: tube pwr supply info needed
Message-ID: <134.70b1aa.28b589ec@aol.com>

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Jim,

www.fairradio.com lists a 6.4volt @6.4 amp (these identical numbers suggest a possible misprint) filament transformer with a 115Vac primary for \$6.95 each. Get a couple of these. Wire them up back-to back, i.e., connect the two low voltage secondaries together. Pick off your needed filament voltage at the back-to-back junction. Connect one of the primaries to a half wave rectifier, plus filtering components, to satisfy your dc requirement. Plug the other primary into the wall and play!

72/73,

Charles, W2SH

Date: Wed, 22 Aug 2001 17:14:02 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [105475] Re: Resonant Antenna
Message-ID: <018501c12b57\$c0931ba0\$620b4d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks for the support Bill. I felt that once it was described in simple terms then all could understand it. The antenna system must be resonant for an efficient transfer of power.

Mike Branca W3IRZ

Date: Wed, 22 Aug 2001 17:18:33 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [105476] Re: tube pwr supply info needed
Message-ID: <018901c12b58\$621a6d20\$620b4d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Jim, there is a reason that the P/S was not located in the VFO cabinet. These old devices were pretty much temperature sensitive so the P/S was external. Also the transformer mechanical hum will help you create some MCW at 60 cycles.

Mike Branca W3IRZ in Conyers Georgia

Date: Wed, 22 Aug 2001 18:36:25 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Rob Matherly" <kc0bom@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105477] Re: Iron on schematics
Message-ID: <008601c12b5b\$2b3b2800\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I bought my 'T-Shirt' iron on patches at a computer show. But I think they carry them at Staples.

Mike

> Well, I guess that's true too. How much are the 'normal' iron-on schematic
> sheets, where could I find them, and how much are they? Mouser would
> probably have something like that, wouldn't they?
>
> 72/73
> Rob, kc0bom

Date: Wed, 22 Aug 2001 18:44:23 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <kc0bom@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105478] Re: Iron on schematics
Message-ID: <008901c12b5c\$000fb6e0\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Laser printers and Xerox type machines use a 'toner' that is set by temperature. You can't do that with an 'ink jet' type printer which uses liquid that 'dries'.

But you CAN take that 'ink jet' print to a copier and just 'copy' it to get a toner copy.

One thing. MOST copiers do NOT copy exactly 100%. They either expand or contract the image just a bit. Will it be critical? Depends on the copier and what you're trying to do.

If you copy from an Ink Jet to a toner copier, I'd put 'reference marks' on your original near the corners at about even inch spacing. Like two dots at the top, EXACTLY 7" apart. Then two at the bottom, EXACTLY 10" down from the top kind of thing. Then when you make a SINGLE copy, MEASURE your marks and see how close they are. Will it matter in most cases? Depends on what you're trying to 'lay out'. But if it's too far off, see if your copier can zoom in or out to compensate. Some will zoom at 1%, but some older ones only at 5% or even 10% steps. Some simple ones only zoom to specific steps. But some high end copiers have a linear zoom.

Mike

> Wow! Lots of useful info! I'm getting plenty of suggestions involving
> laser printers and Xerox machines. Is there any way to use ink jet
> printers?
>
> 72/73
> Rob, kc0bom

Date: Wed, 22 Aug 2001 15:50:50 -0700
From: Eric Swartz WA6HHQ - Elecraft <eric@elecraft.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [105479] [Fwd: [Elecraft] Antarctica HF Operations]
Message-ID: <3B84374A.ED576706@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

----- Original Message -----

Subject: [Elecraft] Antarctica HF Operations

Date: Wed, 22 Aug 2001 17:51:38 -0400

From: "Veatch, James C. (JCV)" <JCV@arinc.com>

Reply-To: "Veatch, James C. (JCV)" <JCV@arinc.com>

To: "'Steve Jackson '"

<ssj@nortelnetworks.com>,"'w6nse@yahoo.com'"<w6nse@yahoo.com>,"'elecraft@qth.net'"
<elecraft@qth.net>

Well it's that time again!

We (WA2EUJ and NE5W) were at the ham shack last night and only heard some ZL. I have the K2 down here again and a 500W amp. I'll try to do some serious operations Sunday afternoon US time (8/26). I'll let you know the schedule.

We're at the main TX site today and have a FT-100 with us. We are going to hook it up to a rhombic that points vaguely towards the US. Listen for us on 14243 kHz between 9:00PM and 10:00PM EDT we use the station call sign KC4USV. If we make a pile-up (I hope) I'll do some K2's only calls.

Hope to hear you.

Jim, WA2EUJ

Submissions: elecraft@qth.net (You must be subscribed to post)

Postings must be sent from the exact same addr. as subscribed.

Please note: The list server automatically rejects HTML encoded emails.

List Archive page: <http://www.qth.net/archive/elecraft/elecraft.html>

Elecraft Web Page: <http://www.elecraft.com>

Date: Wed, 22 Aug 2001 15:53:19 -0700

From: lhlousek <lhlousek@nvhbell.net>

To: QRP-L list <qrp-l@Lehigh.EDU>

Subject: [105480] Portable SWL RX for CW??

Message-ID: <010801c12b5d\$3d31a0a0\$650dfea9@nvhbell.net>

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

Does anybody know of a small portable short wave receiver that would be suitable for listening to CW on ham bands? Are any of the Radio Shack/Sangean or Sony receivers suitable? Besides having an BFO for CW and SSB how narrow a bandwidth do these radios have? I figure it

would be nice to have a 1000Hz bandwidth or less to be reasonably useful for this purpose. I see that the new Kenwood TH-F6A HT advertises general coverage RX with CW and SSB modes but I guess nobody knows how well it works yet.

Lou W7DZN

Date: Wed, 22 Aug 2001 21:29:47 +0100
From: Larry Cahoon <lejek@erols.com>
To: cherry@getnet.net, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105481] Re: RBA-1 Balun
Message-ID: <5.0.2.1.0.20010822212803.00a15a00@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I replaced mine as well - rebuilt it is more accurate - I used FT 140-61 and it came out FB. I did notice that at least the last time I looked the LDG manual did not specify the material that they were using.

73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p/>

At 09:44 AM 08/21/01 -0700, cherry@getnet.net wrote:

>What ferrite material did you replace it with?

>There are hundreds of different ferrite materials.

>What size was the ferrite toroid?

>Jim FitzSimons W7ANF

>

>Quoting "Karl F. Larsen" <k5di@zianet.com>:

>

> >

> > Yes Bill powdered iron is perfect for a high impedance choke to couple

> > 12

> > volts to a transistor. It's terrible as a transformer because it has

> > so

> > much loss. Check out some transistor circuits in any book and see

> > what's

> > used.

> >

> > I had a nice big powdered iron job in my BA-1 4-1 balun. Built it

> > to spec's and it passed power ok but when I did the test for balun

> > performance it failed. Replaced it with ferrite and it was perfect.

Date: Wed, 22 Aug 2001 21:25:49 +0100
From: Larry Cahoon <lejek@erols.com>
To: w1rfi@arrl.org, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105482] RE: Costco "Atomic" clock
Message-ID: <5.0.2.1.0.20010822211921.00a19a30@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I will granted all this is true. But then the next question is how do I know that I have be subject to harmful interference from a part 15 devise? Only then can I begin to address the issue of getting it corrected. Most of these things don't seem to want to tell me what frequency they are using. Worst yet, I don't own the devise so I don't even know it exists and is running under Part 15. I suspect there is no national(?) registration of these devises. So it can be real hard for me the typical amateur to know where the interference is coming from.

73 de Larry.....WD3P

At 10:53 AM 08/21/01 -0400, Hare,Ed, W1RFI wrote:

>Hi, Dave,

>

>These devices are FCC Certificated under Part 15 rules as "periodic
>emitters." The ones I have look at transmit for about 50 milliseconds every
>30 seconds or so. Most operate on 433.92 MHz, a European Industrial,
>Scientific and Medical band. To date, I have no reports of harmful
>interference to Amateur communications from legal devices. One fact that is
>not well understood amongst amateurs is that all amateur spectrum is shared
>with somebody. Part 15 devices can legally operate on any amateur
>frequency (and most non-amateur frequencies, too) at the various levels
>defined in the rules. They are unconditionally secondary to other radio
>services.

End of QRP-L Digest 2289

